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ABSTRACT

This workbook, which was provided for the participants in a 1988 Texas State Library workshop on CD-ROM (Compact Disc-Read Only Memory) technology for libraries, begins with a series of outlines of workshop topics. These topics include: (1) standards for and the creation and operation of CD-ROM; (2) types of CD-ROM products; (3) procurement considerations; and (4) CD-ROM versus other media. A list of 184 vendors of CD-ROM products is then presented. Each entry includes the company name, address, telephone number, title and cost of product, contents of the disk(s), and type of product (database, software library, public access catalog, catalog information, acquisitions database, reference source, catalog support, or tutorial). An index to the vendor list by title of the CD-ROM product is also provided, as well as a 20-page glossary of terms and a 134-item bibliography of materials used in the preparation of the workshop. (CGD)

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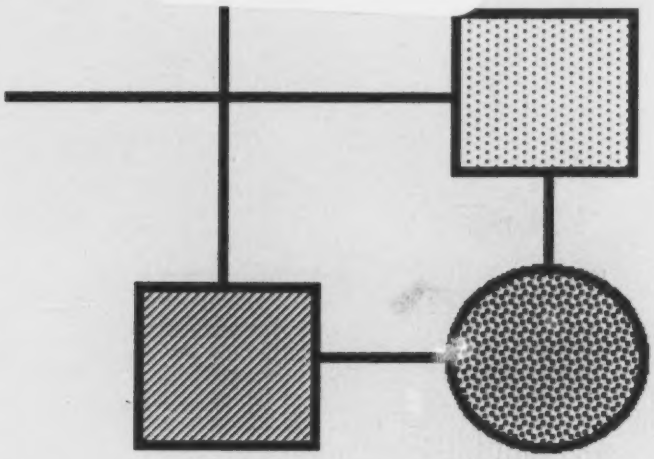
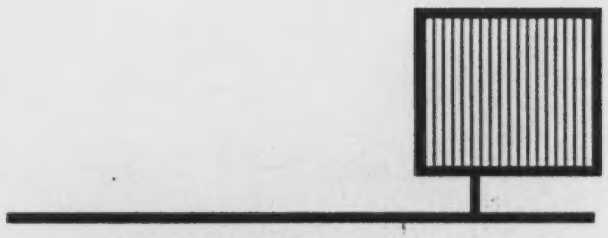


CD - ROM

Technology for Libraries



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CD-ROM
Technology for Libraries

Participant Workbook

A Workshop Presented by

Frank R. Bridge and C. Rebecca Garcia

of the

Library Development Division
TEXAS STATE LIBRARY

May 1988

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CD-ROM Technology for Libraries

Standards, Creation & Operation

Types of CD Products

Procurement Considerations

Vendor Demonstrations

CD-ROM vs. Other Media

Wrap-Up

CD-ROM Standards, Creation & Operation

√ Is it "Standard" ?

√ How are CDs Made?

√ How CD-ROM Works

√ Other Products Using Related Technology

CD-ROM Standards, Creation & Operation

√ Is it "Standard"?

*Definition

Physical Level

Logical Level

Application Level

* Red Book

* Yellow Book

* High Sierra Standard

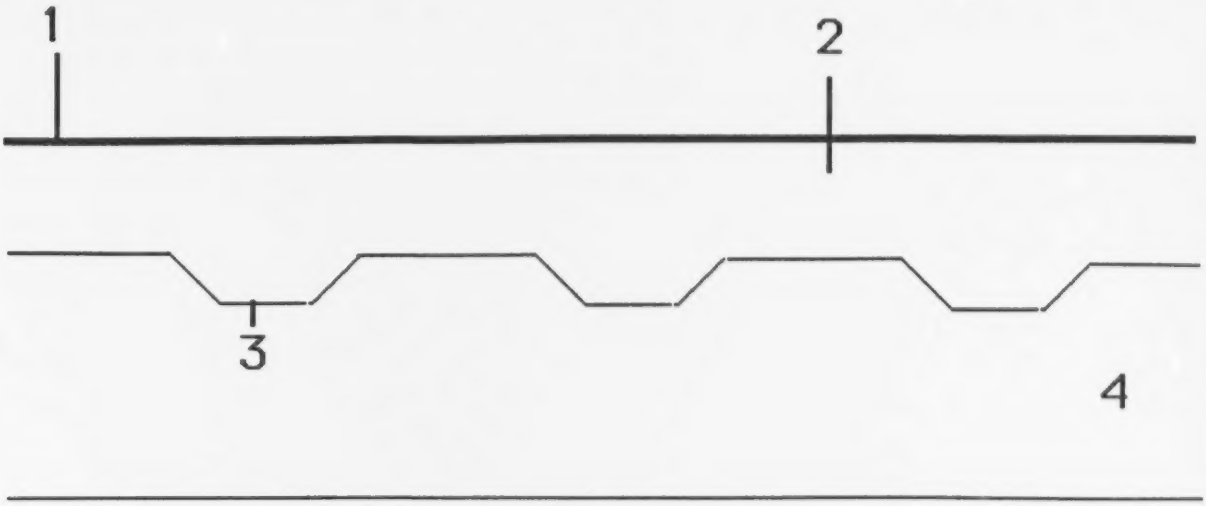
* Green Book

* The Bottom Line

CD-ROM : Standards, Creation & Operation

√How CDs are made

* Physical Makeup
* Information Encoding
* Cost & Time Factors
* Error Rate
* Durability



1 Label

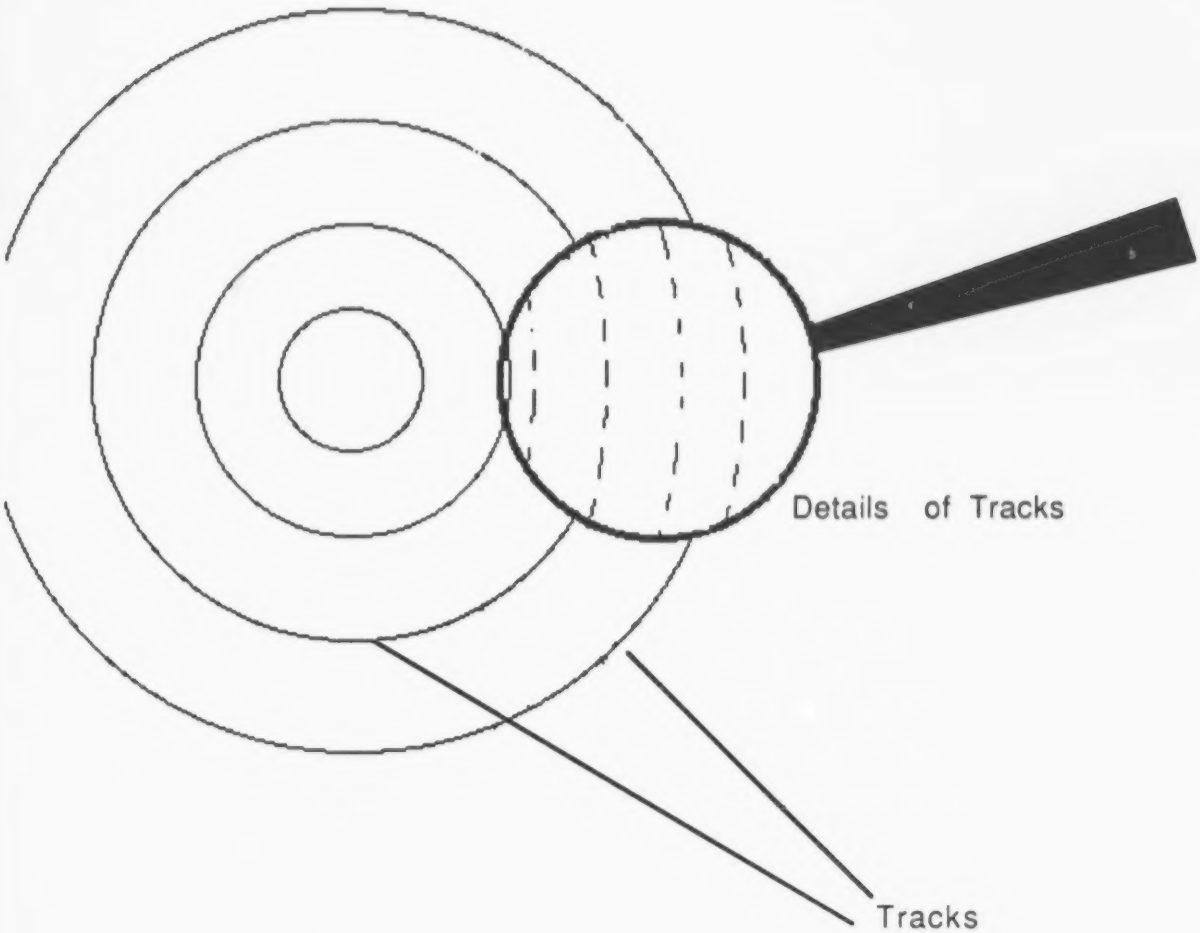
2 Protective Coating

3 Reflective Coating --
Recording Surface

4 Plastic Core

Cross Section of a CD-ROM Disk

CD-ROM Track Layout Diagram



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CD-ROM : Standards, Creation & Operation

√ Information Encoding

* Capacity

* Format

Constant Angular Velocity (CAV)

Constant Linear Velocity (CLV)

CD-ROM : Standards, Creation & Operation

* Steps in the mastering process

Data Preparation

Data Indexing

Processing for CD-ROM

Compressing & Digitizing Images

Pre-mastering

Error Correction Encoding

Master Tape Creation

Master Disc Creation

Inverse Stamp Creation

Disc Replication

Disc Protection

CD-ROM : Standards, Creation & Operation

√ Cost & Time Factors

* Application Design

* Data Acquistion

* Data Preparation

* Product Testing

* CD-ROM Mastering

CD-ROM : Standards, Creation & Operation

√ Error Rate

* Acceptable Error Rate

* Error Correction Schemes & Reliability

* Steps in Error Correction Encoding

Layered ECC

Cross-Interleaved Reed Solomon Code

Complementary Decoding

√ Durability

* Life of the media

* Is it invincible ?

CD-ROM: Standards, Creation & Operation

√ How CD-ROM Works

* Updating Information

  Hard Disk vs. New Master

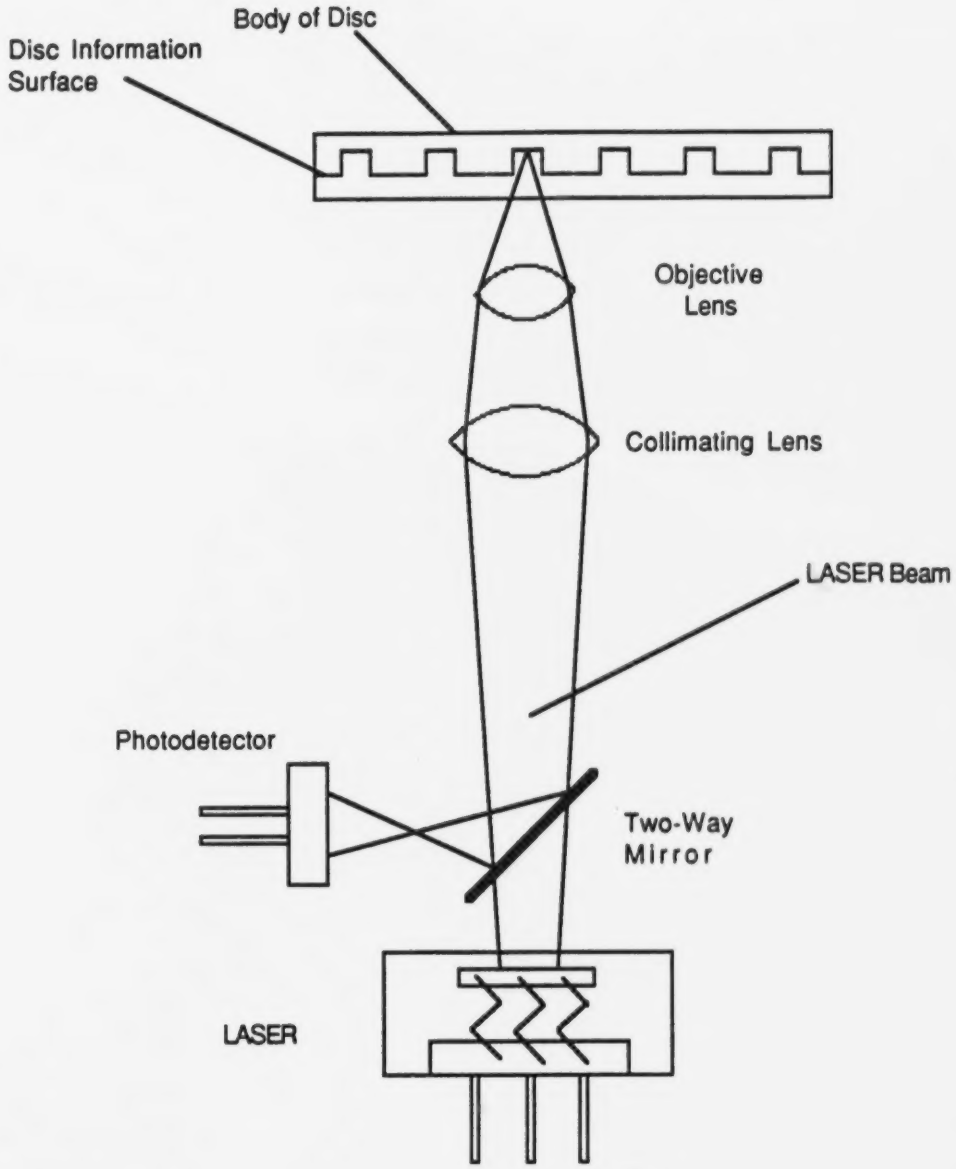
  Accessing Updates

* Networking / Sharing CD-ROM Workstations

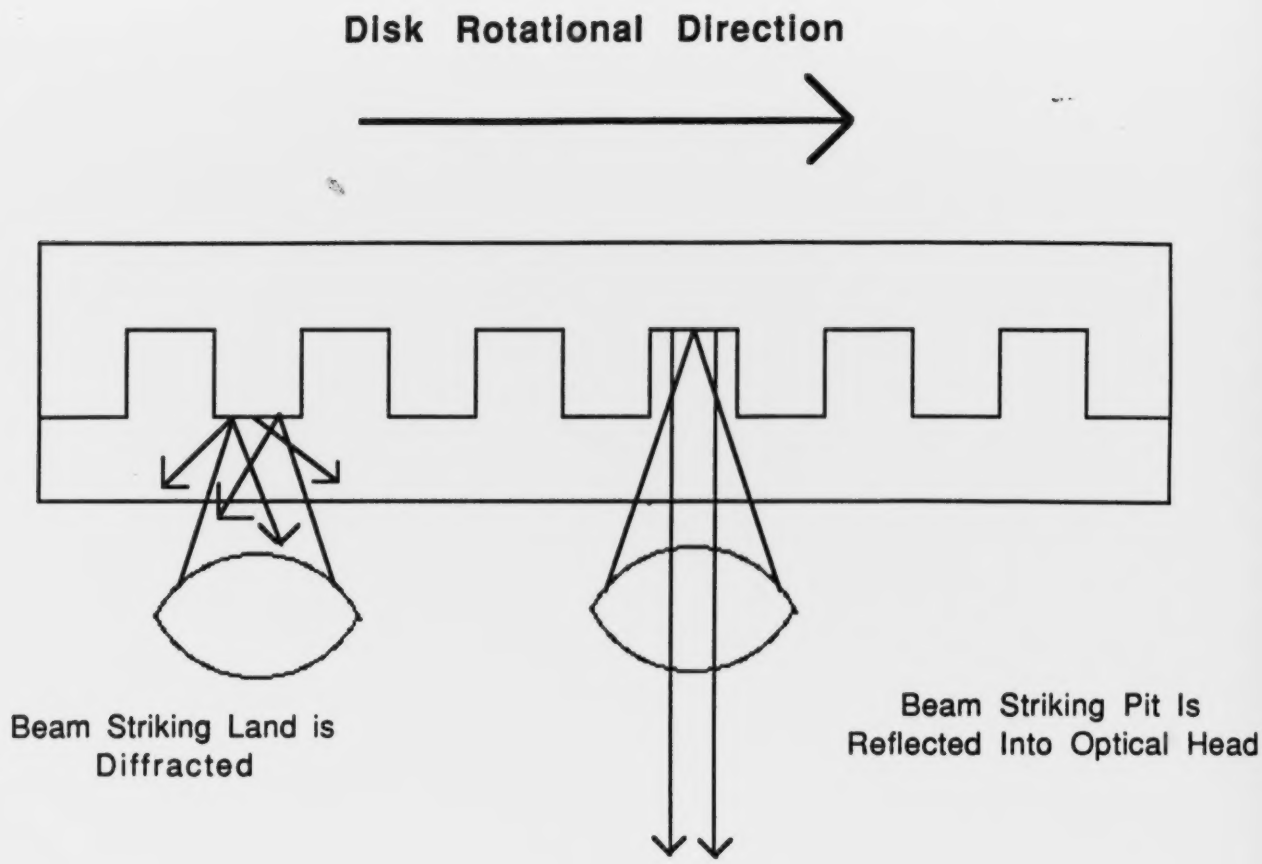
CD-ROM : Standards, Creation & Operation

√How CD-ROM Works

* Reading the Data



Optical Head Diagram for CD-ROM Drive



Data Transfer From CD-ROM Disc

CD-ROM : Standards, Creation & Operation

√ Other Media Using Related Technology

* Analog vs. Digital

* Read-Only/Analog

* Read-Only/Digital

* Write-Once

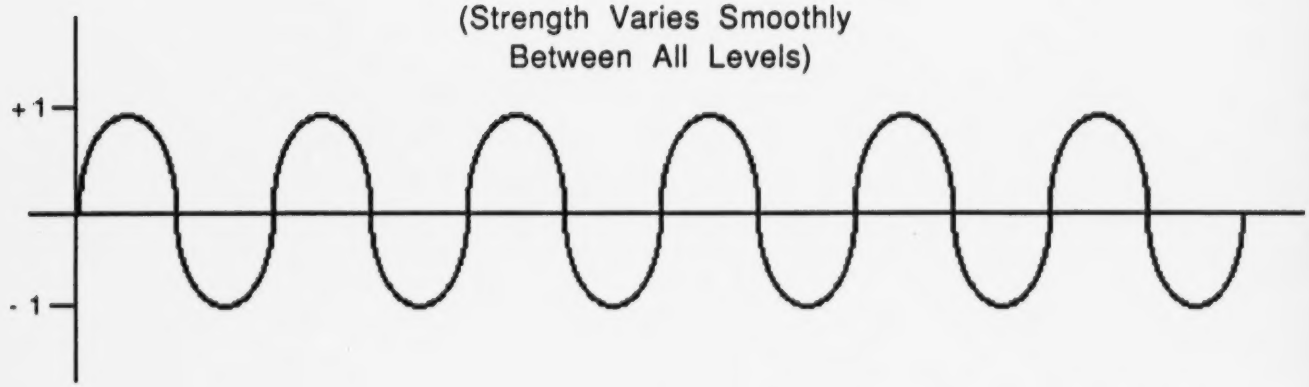
* Erasable Discs

CD-ROM : Standards, Creation & Operation

√ Other Media Using Related Technology

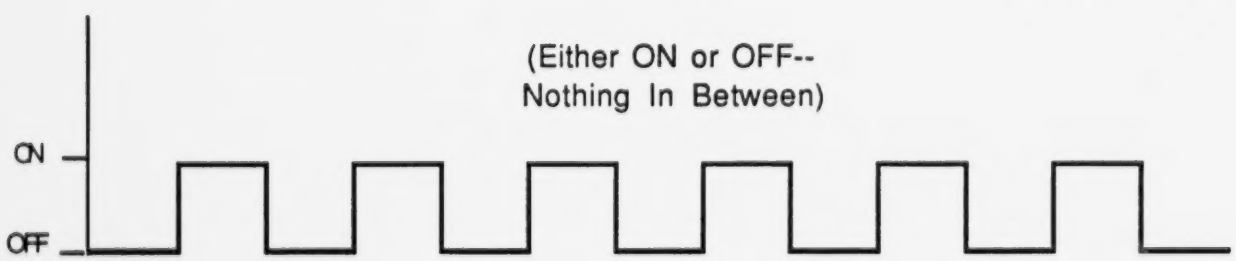
Analog Signal

(Strength Varies Smoothly
Between All Levels)



Digital Signal

(Either ON or OFF--
Nothing In Between)



CD-ROM : Standards, Creation & Operation

√ Other Media Using Related Technology

* Read-Only/Analog

Videodisc

Level 1

Level 2

Level 3

Level 4

* Digital Videodisc

CD-ROM : Standards, Creation & Operation

√ Read-Only/Digital

* CD-Audio

* CD-ROM

* CD-I

* OROM/DataROM

* CD-V

√ Write-Once Discs for Optical Storage

* WORM/DRAW/OD3

* CD-PROM

* Write-Once Cards

CD-ROM : Standards, Creation & Operation

√ Erasable Discs

* CD-EPROM

Types of CD-ROM Products Available

√ Cataloging Sources

√ Reference Sources

√ Acquisitions Sources

√ Databases

√ Public Access Catalogs

√ Software Libraries

√ Tutorials

Types of CD-ROM Products Available

√CD-ROM Market Players

* Developers

* Search Software Producers

* Marketers

User Experiences with CD-ROM

Steps to Get Your CD-ROM Up and Running; What Others Have Already Experienced

Step One: Whether to Purchase

√ Product Appropriateness

√ Budgeting (Purchase Costs and Ongoing Costs)

√ Location (Staffing Procedures, Security Concerns, Environmental Requirements)

√ Product Value

Accuracy (compared with other similar searches)

Ease of Use/Comprehension

Content Analysis

Revisions/Updates

√ Demonstrations (General Overview vs Locally Tailored)

Components (Types/Expandability)

File Access/Software Access (Response Time, Access Types, Help Formats Manuals

Step Two: What To Purchase

√ License to use the system and its data

√ Search software

√ CD-ROM database

√ Hardware

IBM PC Compatible or IBM PS/2

Minimum of 512K of RAM; most systems function better with 640K

CD-ROM Disk Controller Board (matches the CD-ROM drive) and cable

CD-ROM Drive

Step Three: How to Prepare the Site

√ Electrical Improvements

Grounded, dedicated 20-amp circuit for every two work stations

Three outlets for each work station

Electrical Surge Suppressors (these can provide the multiple outlets)

Telephone Lines for staff and for telecommuncations, as needed

√ Physical Site Improvements

Computer Furniture (roll-top lockable desks require front-loading CD-ROM drives

Lockable supply cabinets for paper, ribbons, diskettes

Step 4: Operational and Support Considerations

√ Hardware Location (Reference Desk, Scattered)

√ Staffing/Scheduling (User education, equipment service)

√ Staff Training (CD-ROM applications, general computer usage)

√ User Assistance/User Scheduling

√ Security (Theft, vandalism, computer/operating system)

√ Vendor Support

Broken equipment

Functional Questions

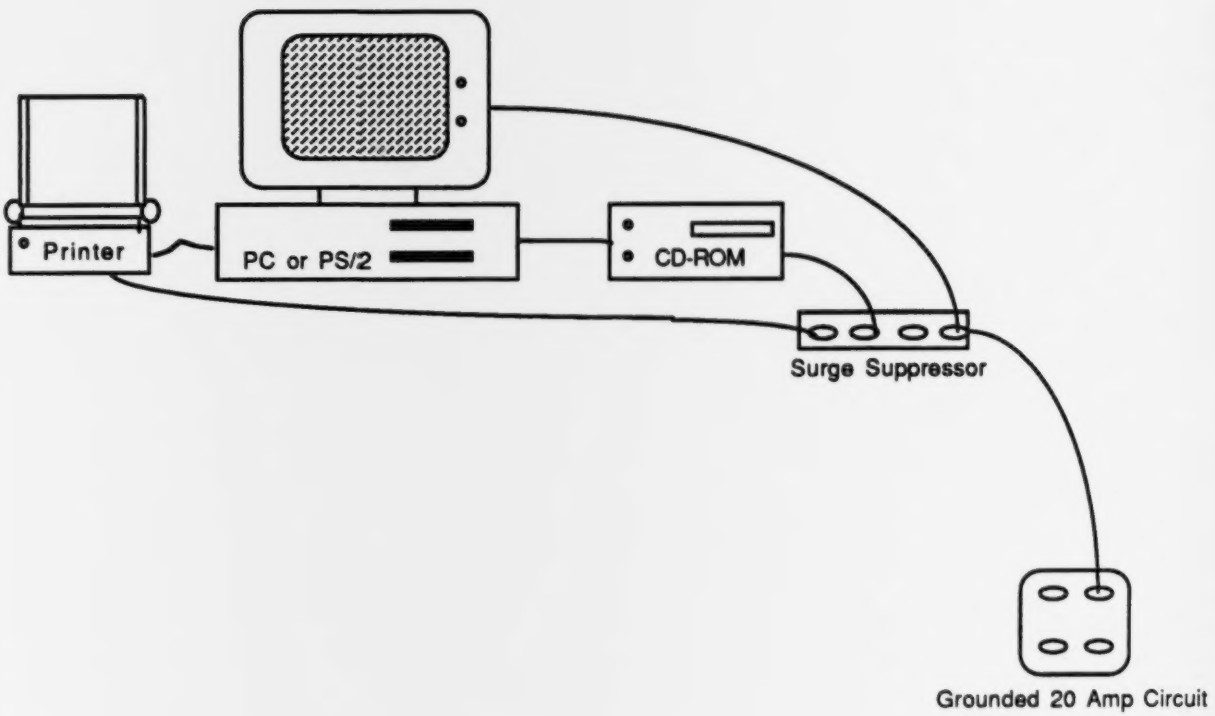
√ Information Updates

Medium (new CD-ROM disc/tape/floppy disk; also user manuals)

Frequency

√ Supplies (Paper, diskettes, ribbons/ink jet cartridges)

CD-ROM Electrical Wiring Diagram



CD-ROM vs. Online

Access/Availability

√ Number and complexity of searches done in specific data bases

Some data bases have controlled vocabulary with little allowance in the file structures for incorrect search entries

Commands vary between data base products

Mainframe computers have additional functionality and speed which is not yet available on microcomputers.

It may be necessary to dedicate a single work station to one data base. Currently there is no viable multiple work station/multiple CD-ROM hardware environment.

√ Subject Material Which is Commonly Requested

Availability and cost of the CD-ROM products (hardware, software, ongoing database/maintenance costs

Timeliness of the requested data

Search expertise required

Patron desire to perform data base searches

Staffing Considerations

√ Staff Comfort and Ability to Train Patrons

√ Staff Time Required to Assist Patron Searches

√ Availability and Usefulness of Search Documentation

Costs

√ Who Pays For Search? (Can you rebudget the online costs for CD-ROM purchases?)

√ Equipment

Number of workstations required

Site Preparation

Supplies

Customer Reactions (Current Users)

Company Support (Types; Turnaround Times; User Training, Updates)

Vendor List for CD-ROM Products

The CD-ROM market is a very volatile one and as such, it is difficult to track current product price & availability. The attached is meant to be an introductory look at the market. Remember that not every CD-ROM product works on every CD-ROM drive or every microcomputer. It is important to contact the vendor directly for more information before purchasing any CD-ROM product.

Company: Access Innovation
Address: P.O. Box 40130
City & Phone: Albuquerque, NM 87196 (505)265-3591
Title: A-V Online
Price: $795/yr
Contents: Audiovisual Material Catalog
Classification: Database

Company: AIRS, Inc.
Address: 335 Paint Branch Drive
City & Phone: College Park, MD 20742
Title: ENFLEX CD-ROM
Price: Prototype only
Contents: ERM Environmental Information Service
(ENFLEX INFO)
Compilation of Federal & State Environmental Regulations
Classification: Database

Company: ALDE
Address: 7840 Computer Avenue
City & Phone: Minneapolis, MN 55435 (612)835-5240
Title: Federal Procurement Disc
Price: $995
Contents: GSA Supply Catalog
Title 48CFR Procurement Regulations
Title 41CFR Federal Public Contracting
Classification: Database

Company: American Psychological Association
Address: 1400 North Uhle St.
City & Phone: Arlington, VA 22201 (800)336-4980
Title: PsycLIT
Developed by SilverPlatter
Price: $3,995/yr for set
Contents: Psychology Citations
Behaviorial Sciences Citations
Classification: Database

Company: Auto-Graphics, Inc.
Address: 3201 Temple Ave.
City & Phone: Pomona, CA 91768 (800)325-7961
Title: IMPACT
Price: Varies according to local database
Contents: Local Holdings
Classification: Public Access Catalog

Company: Bowker Electronic Publishing
Address: 245 West 17th St.
City & Phone: New York, NY 10011 (800)323-3288
Title: Books-in-Print Plus
Price: $895
Contents: Books In Print, Books In Print Supplement
Subject Guide to Books In Print
Forthcoming Books
Subject Guide to Forthcoming Books
Classification: Acquisitions Database

Company: Bowker Electronic Publishing
Address: 245 West 17th St.
City & Phone: New York, NY 10011 (800) 323-3288
Title: Out of Print Plus
Price: $395
Contents: Out of Print Books
Classification: Acquisitions Database

Company: Bowker Electronic Publishing
Address: 245 West 17th St.
City & Phone: New York, NY 10011 (800)323-3288
Title: Reviews Plus
Price: $395
Contents: 25,000 Book Reviews
Classification: Acquisitions Database

Company: Bowker Electronic Publishing
Address: 245 West 17th St.
City & Phone: New York, NY 10011 (800)323-3288
Title: Software Plus
Price: $395
Contents: List of Software Programs
Classification: Software Library

Company: Bowker Electronic Publishing
Address: 245 West 17th Street
City & Phone: New York, NY 10011 (800)323-3288
Title: Ulrich's Plus
Price: $395/yr (disc only)
Contents: Ulrich's International Periodicals Directory
Irregular Serials and Annuals
Classification: Acquisitions Database

Company: British Library
Address: Boston Spa, Wetherby
City & Phone: West Yorkshire, England LS23 7BQ
Title: Blaise Files
Price: Demonstration only
Contents: UKMarc
British Books in Print
Conference Proceedings Index
Classification: Cataloging Information

Company: Brodart Automation
Address: 500 Arch St.
City & Phone: Williamsport, PA 17705 (800)233-8467
Title: LePac: Government Documents
Price: $2,500/yr
Contents: GPO Catalog
Classification: Acquisitions Database

Company: Brodart Automation
Address: 500 Arch St.
City & Phone: Williamsport, PA 17705 (800)233-8467
Title: LePac: Local Public Access Catalog
Price: .02-.09/Title
Contents: Local Holdings
Classification: Public Access Catalog

Company: BRS Information Technologies
Address: 555 East Lancaster Ave. 4th fl.
City & Phone: Saint David, PA 19087
Title: BRS Colleague Disc
Price: $2,250 (1985-88)
Prices of other years vary
Contents: Medline
Citations to Medical Literature
Classification: Database

Company: CAB International
Address: Farnham House; Farnham Royal
City & Phone: Slough SL2 3BN, England; Farnham Common (02814)2662
Title: CAB on CD-ROM
Price: Prototype only
Contents: Commonwealth Agricultural Bureaux Abstracts
Records of British Public Health
Records of Tropical Medicine
Classification: Database

Company: Cambridge Scientific Abstracts
Address: 5161 River Road
City & Phone: Bethesda, MD 20816 (301)951-1400
Title: COMPACT Cambridge/ASFA
Price: $2,250/yr
Contents: Aquatic Science and Fisheries Abstracts
Classification: Database

Company: Cambridge Scientific Abstracts
Address: 5161 River Road
City & Phone: Bethesda, MD 20816 (301) 951-1400
Title: COMPACT Cambridge/Life Sciences
Price: $3,150/yr
Contents: Life Sciences Abstracts
Classification: Database

Company: Cambridge Scientific Abstracts
Address: 5161 River Road
City & Phone: Bethesda, MD 20816 (301) 951-11400
Title: COMPACT Cambridge/MEDLINE
Price: $975
Contents: Medline
Medical Journal Citations
Classification: Database

Company: CCOHS
Address: 250 Main St. East
City & Phone: Hamilton, Ontario L8N 1H6
Title: Ccinfodisc
Price: $100(Can)/yr
Contents: Canadian Centre for Occupational Health & Safety Database
Classification: Database

Company: Cornell University
Address: English Dept. Rockefeller Hall
City & Phone: Ithaca, NY 14853 (607)255-4390
Title: Black fiction up to 1920
Price: Demonstration only
Contents: Citations
Classification: Database

Company: Data Base Products, Inc.
Address: 12770 Colt Road #1111
City & Phone: Dallas, TX 75251 (214)233-0593
Title: O & D Plus, Vol. 1-3
Price: Vol.1: $8,000
Vols. 2 & 3: $8,000 ea./yr
Contents: Department of Transportation
Origin and Transportation Study (7 yrs)
Classification: Database

Company: Data Times
Address: 1400 Quail Springs Parkway #450
City & Phone: Oklahoma City, OK 73134 (405) 751-6400
Title: Daily Oklahoman
Price: $1,000/yr
Contents: Daily Oklahoman Newspaper: 11/81-5/86
Classification: Database

Company: DATATEK
Address: 818 N.W. 63rd St.
City & Phone: Oklahoma City, OK 73116 (405)843-7323
Title: DataTimes
Price: Contact Supplier
Contents: Newspaper & Newswire Database
Classification: Database

Company: Datext
Address: 444 Washington St.
City & Phone: Woburn, MA 01801 (617)938-6667
Title: CD/Banking
Price: $16,000/yr
Contents: Commercial Banking & Savings & Loan Information
Classification: Database

Company: Datext
Address: 444 Washington St.
City & Phone: Woburn, MA 01801 (617)938-6667
Title: CD/Banking Savings & Loans
Price: Call for Price Information
Contents: Data on all federally insured
U.S. Savings & Loan Associations
Classification: Database

Company: Datext
Address: 444 Washington St.
City & Phone: Woburn, MA 01801 (617)938-6667
Title: CD/Corporate
Price: $17,500/yr
Contents: Business Information Covering
10,000 Publicly Traded Companies
Classification: Database

Company: Datext
Address: 444 Washington St.
City & Phone: Woburn, MA 01801 (617)938-6667
Title: CD/CorpTech
Price: $7,500/yr
Contents: Business Information Covering
Public & Private High-Tech Companies
Classification: Database

Company: Datext
Address: 444 Washington St.
City & Phone: Woburn, MA 01801 (617) 938-6667
Title: CD/International
Price: $19,500/yr
Contents: Global Equity Screening
4,000 International Companies
Classification: Database

Company: Datext
Address: 444 Washington St.
City & Phone: Woburn, MA 01801 (617)938-6667
Title: CD/Private+
Price: $6,500/yr
Contents: Information Covering Private Firms and 8,500 Public Companies
Classification: Database

Company: DDRI
Address: 6609 Rosecroft Place
City & Phone: Falls Church, VA 22043 (703)237-0682
Title: CD-ROM Sourcedisc
Price: To Be Announced
Contents: CD-ROM Sourcebook
Classification: Reference Source

Company: DeLorme Mapping Systems
Address: P.O. Bos 298
City & Phone: Freeport, ME 04032 (207) 865-4171
Title: DeLorme's World Atlas
Price: Call for Price Information
Contents: Vector-based World Atlas
Classification: Reference Source

Company: Department of Atmospheric Sciences
Address: University of Washington
City & Phone: Seattle, WA 98195 (206)545-0910
Title: National Meterological Grid Point Data Set
Price: $35
Contents: Meterological Study of the Northern Hemisphere 1940-1980
Classification: Reference Source

Company: DIALOG Information Services, Inc.
Address: 3460 Hillview Avenue
City & Phone: Palo Alto, CA 94304 (800)3-DIALOG
Title: DIALOG OnDisc
See DIALOG ON DISC ERIC,NTIS & Medline
Price:
Contents:
Classification:

Company: DIALOG Information Services, Inc.
Address: 3460 Hillview Avenue
City & Phone: Palo Alto, CA 94304 (800)3-DIALOG
Title: DIALOG OnDisc ERIC
Price: $1,650 (1966-pres) $950 (1980 - pres)
Also: $950/yr on either set
Contents: Resources in Education (RIE)
Current Index to Journals in Education (CIJE)
Thesaurus of ERIC descriptors
Classification: Database

Company: DIALOG Information Services, Inc.
Address: 3460 Hillview Avenue
City & Phone: Palo Alto, CA 94304 (800)3-DIALOG
Title: DIALOG OnDisc Medline
Price: $1,450/yr (2 yrs.: Current yr & 1 yr backfile)
$2,450/yr (5 yrs.: Current yr. & 4 yr backfile)
Contents: Citations to Medical Literature
Classification: Database

Company: DIALOG Information Services, Inc.
Address: 3460 Hillview Avenue
City & Phone: Palo Alto, CA 94304 (800)3-DIALOG
Title: DIALOG OnDisc NTIS
Price: $2,750/yr (5 yrs: Current yr. & 4 yr backfile)
9 yr (Current yr & 8 yr backfile) coming soon
Contents: Citations to Technical Information
Classification: Database

Company: Digital Decus Group
Address: Boroughs' Plaza 219 Boston Post Road
City & Phone: Marlboro, MA 01752 (617)480-3418
Title: Decus Fall 1986 CD-ROM Disc #1
Price: $100
Contents: Decus Software Library Catalog
VAX SIG Symposia Collection
Classification: Software Library

Company: Digital Decus Group
Address: Boroughs' Plaza (BPDO) 219 Boston Post Road
City & Phone: Marlboro, MA 01752
Title: Decus Spring 1987 CD-ROM DIsc #2
Price: $100
Contents: Special VAX Library Tape #1
Best of PC-8088 Collections 1-8, version 1
Classification: Software Library

Company: Digital Diagnostics Inc.
Address: 601 University Ave., Suite 255
City & Phone: Sacramento, CA 95825 (916)921-6629
Title: BiblioMed
Price: $2,900/yr
Contents: National Library of Medicine
Bibliograhic Database
Classification: Database

Company: Disclosure
Address: 5161 River Road
City & Phone: Bethesda, MD 28016 (800)843-7747
Title: Compact Disclosure
Price: $4,500/yr.
Contents: Companies on the US Stock Exchange
Classification: Database

Company: Donnelley Marketing Service
Address: 70 Seaview Ave.
City & Phone: Stanford, CT 06904
Title: Conquest
Price: $15,000-$30,000 includes workstation
Contents: Consumer Information System
Classification: Database

Company: Dun's Marketing Service
Address: 49 Bloomfield Road
City & Phone: Mountain Lakes, NJ 08046 (201)299-0181
Title: Abstracts File
Price: Prototype
Contents: Statistical Abstract for Dun & Bradstreet
Classification: Reference Source

Company: Dun's Marketing Service
Address: 49 Bloomfield Road
City & Phone: Mountain Lakes, NJ 07046 (201)299-0181
Title: Million Dollar Directory
Price: Prototype
Contents: Top 160,000 Companies by net worth
Classification: Reference Source

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503
Title: Cataloger's Tool Kit
See: MARC-English,MARC-STM,MARC-LAW
Price: Subscription Plan also available
Contact EBSCO for details
Contents:
Classification:

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503 (213)530-7533
Title: Comprehensive MEDLINE/EBSCO
Price: $2,700/yr
Contents: English language subset of Index Medicus
International Nursing Index (3 yrs)
Index to Dental Literature (3 yrs)
Classification: Database

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503 (213)530-7533
Title: Core MEDLINE/EBSCO
Price: $1,600/yr
Contents: 3 year subset of MEDLINE file
Includes Abridged Index Medicus
English language Nursing & Dentistry Titles
Classification: Database

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503
Title: LC-LAW
Price: $1,999
Contents: English Language Law Materials in
the LC Catalog Post-1970
Classification: Database

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503
Title: LC-STM
Price: $1,999
Contents: English Language Scientific, Technological &
Medical Materials in the LC Catalog post-1970
Classification: Database

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503
Title: MARC-English
Price: $3,800
Contents: LC Cataloged English Titles
Classification: Cataloging Support

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503
Title: MARC-LAW
Price: $2,999
Contents: LC English Cataloging in area of Law
Classification: Cataloging Support

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503
Title: MARC-STM
Price: $2,999
Contents: LC English Cataloging in Areas
of Science, Technology and Medicine
Classification: Cataloging Support

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503
Title: MEDLINE-CD
Price: $3,484
Price Varies
Contents: English Language Section
of NLM MEDLINE Database
Classification: Database

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503
Title: Reference Tool Kit
See LC-STM & LC-LAW
Price:
Contents:
Classification:

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503
Title: Serials Directory
Price: $395
Contents: References to Periodicals, Annuals and Irregular Series published internationally
Classification: Database

Company: EBSCO Electronic Information Division
Address: P.O. Box 13787
City & Phone: Torrance, CA 90503 (213)530-7533
Title: The Serials Directory
Price: To Be Announced
Contents: Serial Publications Listing
Classification: Acquistions Database

Company: Elsevier Science Publications
Address: 52 Vanderbilt Ave.
City & Phone: New York, NY 10017 (212)370-5520
Title: Ca-CD
Price: $2,500/yr
Contents: Cancer Information
Classification: Database

Company: Elsevier Science Publications
Address: 52 Vanderbilt Ave.
City & Phone: New York, NY 10017 (212) 370-5520
Title: CD-ROM Embase
Price: Prototype
Contents: Biomedicine & Related Disciplines
Classification: Database

Company: Environmental Resources Mgmt Computer Services
Address:
City & Phone:
Title: ENFLEX CD-ROM
See AIRS, Inc
Price:
Contents:
Classification:

Company: Facts on File
Address: 460 Park Ave. South
City & Phone: New York, NY 10016 (212)683-2244
Title: Visual Dictionary
Price: Prototype only
Contents: French/English Dictionary
Classification: Reference Source

Company: Facts on File Publications
Address: 460 Park Ave. S.
City & Phone: New York, NY 10157 (212)683-2244)
Title: Facts on File News Digest
Price: $595 to print subscribers
Contents: Headline News with short abstracts
1980-1987
Classification: Reference Source

Company: Faxon Company
Address: 15 Southwest Park
City & Phone: Westwood, MA 02090 (617)329-3350
Title: MicroLinx Database Bldg Option
Price: Price Varies
Contents: MARC Serials Database
Classification: Cataloging Support

Company: General Information Inc.
Address: 401 Park Place, Suite 305
City & Phone: Kirkland, WA 98033 (206)828-4777
Title: National Directory
Price: Prototype only
Contents: National Directory
Addresses & Telephone Numbers
Classification: Reference Source

Company: General Research Corporation
Address: 5383 Hollister Ave.
City & Phone: Santa Barbara, CA 93111
Title: LaserGuide Patron Access Catalog
Price: Call for Price Quote
Contents: Local Holdings
Classification: Public Access Catalog

Company: General Research Corporation
Address: 5383 Hollister Ave.
City & Phone: Santa Barbara, CA 93111 (800)235-6788
Title: LaserQuest
Price: Call for Price Quote
Contents: MARC Records
Classification: Cataloging Support

Company: Geovision Inc.
Address: 270 Scientific Drive, Suite 1
City & Phone: Norcross, GA 30092 (404)448-8824
Title: GEOdisc
Price: $1,500/series
Contents: Maps (National, State, Regional or Metro)
Classification: Reference Source

Company: Grolier Electronic Publishing Inc.
Address: 95 Madison Ave., Suite 1100
City & Phone: New York, NY 10016 (212)696-9750
Title: Electronic Encyclopedia
Price: $299
Contents: Academic American Encyclopedia
Classification: Reference Source

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Applied Science & Technology Index
(Part of WILSONDISC series)
Price: $1,495/yr
Contents: Index of Science & Technology Sources
Possible to access Wilsonline from CD
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Art Index
(Part of WILSONDISC series)
Price: $1,495/yr
Contents: Index of Art Periodicals
Possible to access Wilsonline from CD
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Biography Index
(Part of WILSONDISC series)
Price: $1,095/yr
Contents: Index of Published Biographies
Possible to access Wilsonline from CD
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Business Periodicals Index
(Part of WILSONDISC series)
Price: $1,495/yr
Contents: Index of Business Periodical Articles
Possible to access Wilsonline from CD
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Cumulative Book Index
(Part of WILSONDISC series)
Price: $1,295/yr
Contents: Index of Book Reviews
Possible to access Wilsonline from CD
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Education Index
(Part of WILSONDISC series)
Price: $1,295/yr
Contents: Index of Educational Materials
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: General Science Index
(Part of WILSONDISC series)
Price: $1,295/yr
Contents: Index of General Science Periodicals
Possible to access Wilsonline from CD
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Humanities Index
(Part of WILSONDISC series)
Price: $1,295/yr
Contents: Index of Humanities Literature
Possible to access Wilsonline from CD
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Index to Legal Periodicals
(Part of WILSONDISC series)
Price: $1,495/yr.
Contents: Index to Legal Materials
Possible to access Wilsonline from CD
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Library Literature
(Part of WILSONDISC series)
Price: $1,095/yr
Contents: Index to Library Science Periodicals
Possible to access Wilsonline from CD
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Modern Language Association Index
Price: To Be Announced
Contents: Index to Worldwide Literature
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Reader's Guide to Periodical Literature
(Part of WILSONDISC series)
Price: $1,095/yr
Contents: Index to General Interest Periodicals
Possible to access Wilsonline from CD
Classification: Database

Company: H.W. Wilson Co.
Address: 950 University Ave.
City & Phone: Bronx, NY 10452 (212)588-8400
Title: Social Sciences Index
(Part of WILSONDISC series)
Price: $1,295/yr
Contents: Index to Social Science Information
Possible to access Wilsonline from CD
Classification: Database

Company: Highlighted Data
Address: P.O. Box 17229
City & Phone: Washington, DC 20041 (703)241-1180
Title: Map Cabinet
Price: $199.95
Contents: US Geographics
Classification: Reference Source

Company: Highlighted Data
Address: P.O. Box 17229
City & Phone: Washington, DC 20041 (703) 241-1180
Title: Merriam Webster Ninth
New Collegiate Dictionary
Price: $199.95
Contents: Dictionary
Classification: Reference Source

Company: I.S. Group
Address: 948 Springer Drive
City & Phone: Lombard, Il 60148 (312)627-0550
Title: Oncodisc
Price: To Be Announced
Contents: National Cancer Institute's Physicians's Data
Query & Cancer Literature
Classification: Database

Company: Information Access Co.
Address: 11 Davis Drive
City & Phone: Belmont CA 94002 (800)227-8431
Title: InfoTracII
Price: $4,500/yr
Contents: Magazine Index
3 Months.of the New York Times
Classification: Database

Company: Information Design Inc.
Address: 1300 Charleston Road, P.O. Box 7130
City & Phone: Mountain View, CA 94039 (415)969-7990
Title: Zip + 4
Price: $3,950/yr
Contents: National Directory of Zip Codes
Classification: Reference Source

Company: Information Technology Publishing - ALA
Address: 50 East Huron Street
City & Phone: Chicago, IL 60611 (312)944-6780
Title: The Directory of Library & Information Professionals
Price: Prototype only
Contents: Biographical Directory of
Information Professionals in North America
Classification: Reference Source

Company: Ingram Book Company
Address: 347 Reedwood Drive
City & Phone: Nashville, TN 37217 (615)361-5000
Title: LaserSearch
Price: $3,700
Contents: "Any-Book" Titles
Price & Publisher Information
Classification: Acquisitions Database

Company: Innovative Technology Inc
Address: 2927 Jones Branch Drive
City & Phone: McLean, VA 22102 (703)734-3000
Title: TLRN
Price: $5,160/yr
Contents: Technical Logistics Reference Network
(Federal Catalog System)
Classification: Database

Company: Institute for Scientific Information
Address: 3501 Market Street University City Science Ctr
City & Phone: Philadelphia, PA 19104 (215)386-0100
Title: Science Citation Index on CD-ROM
Price: Not yet set
Contents: Science Citation Index
Permuterm Subject Index
Classification: Database

Company: JA Micropublishing Inc
Address: 271 Main St. Box 218
City & Phone: Westchester, NY 10707 (914)793-2130
Title: CIRR
Price: $1,750
Contents: Corporate & Industry Reports, 1981-86
Classification: Database

Company: JA Micropublishing, INC
Address: 271 Main Street, Box 218
City & Phone: Eastchester, NY 10707 (914)793-2130
Title: Corporate and Industry Research Reports
Price: $1,750/1st year
$1,500/additional yrs
Contents: Company & Industry Reports, 1979-86
Classification: Database

Company: John Wiley & Sons, Inc.
Address: 605 Third Ave.
City & Phone: New York, NY 10158 (212)850-6000
Title: Kirk-Othmer Encyclopedia of
Chemical Technology
Price: $895
Contents: Chemistry Reference Work
Contains the Concise Kirk-Othmer Encyclopedia
Classification: Reference Source

Company: John Wiley & Sons, Inc.
Address: 605 Third Ave.
City & Phone: New York, NY 10158 (212)850-6000
Title: Mark's Encycolpedia of Polymer
Science & Engineering
Price: $3,200
Contents: Polymer & Plastics Encyclopedia
Classification: Reference Source

Company: John Wiley & Sons, Inc.
Address: 605 Third Ave.
City & Phone: New York, NY 10158 (212)850-6000
Title: Registry of Mass Spectral Data
Price: $2,895
Contents: Mass Spectral Data
Classification: Reference Source

Company: John Wiley & Sons, Inc.
Address: 605 Third Ave.
City & Phone: New York, NY 10158 (212)850-6000
Title: The International Dictionary of Medicine & Biology
Price: $195
Contents: Medical Dictionary
Classification: Reference Source

Company: Knowledge Access Inc.
Address: 2685 Marine Way, Suite 1305
City & Phone: Mountain View, CA 94043
Title: Your Marketing Consultant: Advanced Consumer
Price: $950
Contents: Customer Buying Power Index & Formulas plus 80 variables
Classification: Database

Company: Knowledge Access Inc.
Address: 2685 Marine Way, Suite 1305
City & Phone: Mountain View, CA 94043 (415)969-0606
Title: Your Marketing Consultant: Business to Business
Price: $950
Contents: Sales Territory Organizer Determines Market Share & Potential
Classification: Database

Company: KnowledgeSet Corporation
Address: 2511 Garden Road, Bldg C
City & Phone: Monterey, CA 93940 (800)228-3177
Title: Personal Information Package
Price: $995
Contents: Electronic Encycolpedia
(Academic American Encyclopedia)
Classification: Reference Source

Company: Library Association Publishing
Address: 7 Ridgemount St.
City & Phone: London, England WC1E 7AE
Title: LISA
Price: $995
Contents: Library & Information Science Abstracts
Classification: Database

Company: Library Corporation
Address: P.O. Box 40035
City & Phone: Washinton,DC 20016 (800)624-0559
Title: Any-Book
Price: $600/yr
Contents: Price & Publisher Information
"Any-Book" Titles
Classification: Acquistions Database

Company: Library Corporation
Address: P.O. Box 40035
City & Phone: Washington, DC 20016 (800)624-0559
Title: Bibliofile
Price: $870/yr
Contents: LC MARC Tapes
Classification: Cataloging Information

Company: Library Corporation
Address: P.O. Box 40035
City & Phone: Washington, DC 20016 (800)624-0559
Title: PC Laser Library
Price: $199
Contents: Public Domain Software
for the IBM PC
Classification: Software Library

Company: Library Corporation
Address: P.O. Box 40035
City & Phone: Washington, DC 20016 (800) 624-0559
Title: The Intelligent Catalog
Price: Prices Vary
Contents: Local Holdings Information
Classification: Public Access Catalog

Company: Library Systems & Services, Inc
Address: 1395 Piccard Drive, Suite 100 General Motors Bldg.
City & Phone: Rockville, MD 20850
Title: BPN, Jr.
See also: Spectrum 200
Price: $2,000/yr
Contents: MARC Database
Classification: Cataloging Support

Company: Lotus Development Corporation
Address: 55 Cambridge Parkway
City & Phone: Cambridge, MA 02142 (800)544-5501
Title: One Source
Price: $11,000-$30,000/yr
Contents: Daily Stock Price History
Value Line, Ford Investor Services
Disclosure II
Classification: Database

Company: Marcive Inc.
Address: P.O. Box 47508
City & Phone: San Antonio, TX 78265 (800)531-7678
Title: Marcive/PAC
Price: Prices Vary
Contents: Local Holdings
Classification: Public Access Catalog

Company: McGraw-Hill Book Co.
Address: 11 West 19th St.
City & Phone: New York, NY 10011 (212)512-2000
Title: Electronic Sweet's
Price: $115 w/catalog
Contents: Manufacturing Product Catalog
Classification: Reference Source

Company: McGraw-Hill Book Co.
Address: 11 West 19th St.
City & Phone: New York, NY 10011 (212)512-2000
Title: McGraw-Hill CD-ROM Science
& Technology Reference Set
Price: $300
Contents: Encyclopedia of Science & Technology
Dictionary of Scientific Terms
Classification: Reference Source

Company: Micromedex Inc.
Address: 6600 Bannock St. Suite 350
City & Phone: Denver, CO 80204 (303)623-8600
Title: Drugdex
Incl. in Computerized Clinical Information Systems
Price: Call for Prices
Contents: Drug Evaluations
Classification: Database

Company: Micromedex Inc.
Address: 6600 Bannock St. Suite 350
City & Phone: Denver, CO 80204 (303)623-8600
Title: Emergindex
Incl. in Computerized Clinical Information Systems
Price: Call for Prices
Contents: Critical Care Abstracts
Classification: Database

Company: Micromedex Inc.
Address: 6600 Bannock St. Suite 350
City & Phone: Denver, CO 80204 (303)623-8600
Title: Identidex
Incl. in Computerized Clinical Information Systems
Price: Call for Prices
Contents: Tablet & Capsule Identification
Classification: Database

Company: Micromedex Inc.
Address: 6600 Bannock St. Suite 350
City & Phone: Denver, CO 80204 (303)623-8600
Title: Poisindex
Incl. in Computerized Clinical Information Systems
Price: Call for Price
Contents: Toxicology Database
Classification: Database

Company: Micromedex, Inc
Address: 2750 South Shoshone Street
City & Phone: Englewood, CO 80110 (800) 525-9083
Title: Computerized Clinical Information Systems (CCIS)
Price: $6,000
User customizing may result in higher price
Contents: Poisindex (Toxicology)
Drugdex (Clinical Pharmacology)
Emergindex(Critical Care Abstracts)
Identidex (Drug identification)
Classification: Database

Company: Microsoft
Address: 16011 NE 36th Way, Box 97017
City & Phone: Redmond, WA 98073-9717 (206)882-8080
Title: Microsoft Bookshelf
Price: $295
Contents: American Heritage Dictionary, Chicago Manual of Style
Roget's II: Electronic Thesaurus, 1987 World Almanac
Bartlett's Familiar Quotations, Houghton Mifflin Spelling Check
Houghton Mifflin Usage Alert, US Zip Code Directory
Classification: Reference Source

Company: MicroTrends Inc.
Address: 650 Woodfield Drive, Suite 730
City & Phone: Schaumburg, IL 60195 (312)310-8928
Title: BioLibe Series
Price: $199/disc
Contents: Biology Teaching Aid
Classification: Tutorial

Company: MicroTrends Inc.
Address: 650 Woodfield Drive, Suite 730
City & Phone: Schaumburg, IL 60195 (312)310-8928
Title: FastPast
Price: $199
Contents: World History Tutorial
Classification: Tutorial

Company: MicroTrends Inc.
Address: 650 Woodfield Drive, Suite 730
City & Phone: Schaumburg, IL 60195 (312)310-8928
Title: LinguaTech Bilingual Dictionaries
Price: $199
Contents: English/French, English/German
English/Spanish
Classification: Reference Source

Company: MicroTrends Inc.
Address: 650 Woodfield Drive, Suite 730
City & Phone: Schaumburg, IL 60195 (312)310-8928
Title: Menu
Price: $199
Contents: Computer Applications
Classification: Database

Company: MicroTrends Inc.
Address: 650 Woodfield Drive, Suite 730
City & Phone: Schaumburg, IL 60195 (312)310-8928
Title: Nature Plus
Price: $199
Contents: Animal & Landscape Photos
Classification: Reference Source

Company: MicroTrends Inc.
Address: 650 Woodfield Drive, Suite 730
City & Phone: Schaumburg, IL 60195 (312)310-8928
Title: Versa Text
Price: $199
Contents: Reading Skills Teaching Aid
Classification: Tutorial

Company: National Archives & Records Administration
Address: NSZ,Rm 14N; 7th & Pennsylvania Ave. NW
City & Phone: Washington, DC 20408 (202)523-1546
Title: Optical Digital Image Storage System
Price: Prototype only
Contents: Military Service Archival Records
Classification: Database

Company: National Institute of Building Sciences
Address: 1015 15th St. Suite 700, NW
City & Phone: Washington, DC 20005 (202)347-5710
Title: Building Sciences Information System
Price: Prototype only
Contents: Construction Guides for Selected Government Agencies
Classification: Reference Source

Company: National Standards Association Inc.
Address: 5161 River Road
City & Phone: Bethesda, MD 20816 (800)638-8094
Title: Parts-Master
Price: $7,650/yr
Contents: Parts & Products Procured by the US Government
Classification: Reference Source

Company: NDS
Address: 8618 Westwood Drive, Suite 450
City & Phone: Vienna, VA 22180 (703)883-8900
Title: Informark Laser PC System
Price: Prices Vary
Contents: Marketing Decision Support System
Classification: Reference Source

Company: NewsBank Inc.
Address: 58 Pine St.
City & Phone: New Cannan, CT 06840 (800)223-4739
Title: NewsBank Electronic Index
Price: $3,580
Contents: Primary Source News Material
Classification: Reference Source

Company: Newsreel Access Systems Inc.
Address: 885 3rd Ave. 28th fl
City & Phone: New York, NY 10022 (212)230-3250
Title: News Scan
Price: $75,000/yr.
Contents: Newsreel Summaries
Classification: Reference Source

Company: OCLC, Inc
Address: 6565 Frantz Road
City & Phone: Dublin, OH 43017-0702
Title: Agricola
Price: To Be Announced
Contents: Agricultural Abstracts
Classification: Database

Company: OCLC, Inc
Address: 6565 Frantz Road
City & Phone: Dublin, OH 43017-0702 (800)848-5878
Title: Cat CD450
Price: Prototype Only
Contents: Subset of OCLC Union Catalog
Two collections divided by imprint date
Will also include Authorities Collection
Classification: Cataloging Support

Company: OCLC, Inc
Address: 6565 Frantz Road
City & Phone: Dublin, OH 43017-0702
Title: ERIC
Price: $675/yr
Contents: Current Index to Journals in Education
Resources in Education
Classification: Database

Company: OCLC, Inc
Address: 6565 Frantz Road
City & Phone: Dublin, OH 43017-0702
Title: NTIS
Price: To Be Announced
Contents: National Technical Information Service
Index & Abstracts
Classification: Database

Company: OCLC, Inc
Address: 6565 Frantz Rd
City & Phone: Dublin, OH 43017 (614)764-6000
Title: Search CD450 Agriculture
Price: $995/OCLC Members
Call for non-member prices
Contents: AGRICOLA Database (1979-pres)
CRIS Database (Research Repts on Agriculture & Related Sciences)
Agriculature Materials in Libraries(from OCLC Union Catalog)
Classification: Database

Company: OCLC, Inc
Address: 6565 Frantz Rd
City & Phone: Dublin, OH 43017 (614)764-6000
Title: Search CD450 Science & Technology
Price: $2,195/OCLC members
Call for non-member prices
Contents: National Technical Information Service (NTIS)
NTIS(1986-pres & 1983-85)
Science & Technology Materials in Libraries
From OCLC Union Catalog
Classification: Database

Company: OCLC, Inc
Address: 6565 Frantz Road
City & Phone: Dublin, OH 43017-5878 (614)764-6000
Title: Search CD450 System
Price: Varies with Database
Varies with OCLC membership
Contents: Current Index to Journals in Education(CIJE) (1982-pres)
Resources in Education (RIE) (1982-pres)
CIJE (1969-81) RIE (1967-76; 1977-81)
Education Materials in Libraries (from OCLC database)
Classification: Database

Company: Online Computer Systems
Address: 20251 Century Blvd
City & Phone: Germantown, MD 20874 (301)428-3700
Title: CDMARC Subjects
Price: Prototype only
Contents: Subject Authority Records
Classification: Cataloging Source

Company: Online Computer Systems
Address: 20251 Century Blvd
City & Phone: Germantown, MD 20874
Title: Tax Forms on Demand
Price: To Be Announced
Contents: Tax Forms
Classification: Reference Source

Company: Optical Media International
Address: 495 Alberto Way
City & Phone: Los Gatos, CA 95032 (408)395-4332
Title: The Universe of Sounds
Price: Sold on OEM basis
Contents: Music & Sound Effects
Classification: Reference Source

Company: ORI Ince/ERIC facility
Address: 4350 East West Highway, Suite 1100
City & Phone: Bethesda, MD 20814 (301)656-9273
Title: ERIC
Price: $650/yr
Contents: Current Index to Journals in Education
Resources in Education
Classification: Database

Company: PC-SIG Inc.
Address: 1030-D East Duane Ave.
City & Phone: Sunnyvale, CA 94086
Title: CD/Biotech
Price: $495/yr
Contents: Biotechnology Information
Classification: Database

Company: PC-SIG Inc.
Address: 1030-D East Duane Ave.
City & Phone: Sunnyvale, CA 94086
Title: PC-SIG CD-ROM
Price: $295
Contents: Software Programs
Classification: Software Library

Company: PC-SIG Inc.
Address: 1030-D East Duane Ave.
City & Phone: Sunnyvale, CA 94086
Title: Science Helper(K-8)
Price: $195
Contents: Science & Math Tutorial
Classification: Tutorial

Company: PCI Inc.
Address: 80 Bloor St. West, Suite 1100
City & Phone: Toronto, Ontario M5S 2V1 (416)928-6733
Title: Resors
Price: $1,100/yr
Contents: Satellite Remote Sensitivity Information
Classification: Database

Company: Pergamon Press
Address: 12 Vandy St.
City & Phone: London, England EC2A 2DE
Title: International Encyclopedia of Information
Price: To Be Announced
Contents: Encyclopedia of Information
Classification: Reference Source

Company: Post Office
Address: 33 Grosvenor Place
City & Phone: London, England SW1X 1PX
Title: PAF
Price: 3,000 Pounds
Contents: UK Postal Codes
Classification: Reference Source

Company: Prentice Hall Information Network
Address: 1 Gulf & Western Plaza, 18th fl
City & Phone: New York, NY 10023 (212)373-8600
Title: PHINet Tax Resource
Price: Prototype only
Contents: Private Letter Rulings
Tax & Revenue Rulings
Classification: Database

Company: Public Affairs Information Service
Address: 11 West 40th St.
City & Phone: New York, NY 10018 (212)736-6629
Title: PAIS International
Price: $11,7950/yr
Contents: Index of Public Affairs Materials
Classification: Database

Company: Quantum Access Inc.
Address: 1700 W. Loop South, Suite 1460
City & Phone: Houston, TX 77027 (713)622-3211
Title: Attorney General Documents
Price: $600/yr
Contents: Texas Attorney General's Opinions
Open Records Act Decisions
Classification: Reference Source

Company: Quantum Access Inc.
Address: 1700 W. Loop South, Suite 1460
City & Phone: Houston, TX 77027 (713)622-3211
Title: Material Safety Data System
Price: $750/yr
Contents: Hazardous Materials Information
Classification: Reference Source

Company: Quantum Access Inc.
Address: 1700 W. Loop South, Suite 1460
City & Phone: Houston, TX 77027 (713)622-3211
Title: The State Education Encyclopedia
Price: $2,000/yr
Contents: Documents Necessary to Administer a Texas School District
Classification: Reference Source

Company: Real Estate Data Inc.
Address: 2398 NW 119th St.
City & Phone: Miami, FL 33167 (305)685-5731 Ext.2238
Title: Real Estate Data: Washington,DC Area
Price: To Be Announced
Contents: Property Descriptions
Classification: Reference Source

Company: Reference Technology, Inc.
Address: 5700 Flatiron Parkway
City & Phone: Boulder, CO (303)449-4157
Title: Software Library DataPlate
Price: $395
Contents: Public Domain Software for the IBM PC
Classification: Software Library

Company: Sansyusya Publishing Co. Ltd.
Address: 1-5-34 Taito-ku
City & Phone: Tokyo 110, Japan
Title: Multilingual Dictionary of Science & Technology
Price: To Be Announced
Contents: Chinese, Dutch, English, French
German, Italian, Japanese, Spanish Dictionary
Classification: Reference Source

Company: SilverPlatter Information Services, Inc.
Address: 37 Walnut St.
City & Phone: Wellesley Hills, MA 02181 (617)239-0306
Title: Chembank
Price: $1,950/yr
Contents: Rtecs, Ohmtads,Chris
Classification: Database

Company: SilverPlatter Information Services, Inc.
Address: 37 Walnut St.
City & Phone: Wellesley Hills, MA 02181 (617)239-0306
Title: Compu-Info
Price: $1,350/yr
Contents: Computer Product Listings
Classification: Reference Source

Company: SilverPlatter Information Services, Inc.
Address: 37 Walnut St.
City & Phone: Wellesley Hills, MA 02181 (617)239-0306
Title: Medline
Price: $2,500/yr
Contents: Citations to Medical Literature
Five Year Set
Classification: Database

Company: SilverPlatter Information Services, Inc.
Address: 37 Walnut St.
City & Phone: Wellesley Hills, MA 02181 (617)239-0306
Title: NTIS
Price: $3,750/yr
Contents: National Technical Information Service
Five Year Set
Classification: Database

Company: SilverPlatter Information Services, Inc.
Address: 37 Walnut St.
City & Phone: Wellesley Hills, MA 02181 (617)239-0306
Title: Osh-ROM
Price: $900/yr
Contents: Niosh, Hseline & Cisdoc
Classification: Database

Company: SilverPlatter Information Services, Inc.
Address: 37 Walnut Street
City & Phone: Wellesley Hills, MA 02181 (800)343-0064
Title: ERIC Database on SilverPlatter
Price: $950/yr 1983-pres
Archival: $2,000
Contents: Resources in Education (RIE)
Current Index to Journals in Education (CIJE)
Classification: Database

Company: SilverPlatter Information Services, Inc.
Address: 37 Walnut St.
City & Phone: Wellwsley Hills, MA 02181 (617)239-0306
Title: Agricola
Price: $1,750/yr
Contents: Agricultural Material
Classification: Database

Company: SilverPlatter Information Services, Inc.
Address: 37 Walnut Street
City & Phone: Wellesley, MA 02181 (800)343-0064
Title: EMBASE Database on SilverPlatter
Price: $3,000/yr
Contents: EMBASE (Excerpta Medica)
Classification: Database

Company: Sirsi Corp.
Address: 8106 South Memorial Parkway
City & Phone: Huntsville, AL 35802 (205)881-2140
Title: Lasertap
Price: Call for Prices
Contents: CD-ROM Interface for Sirsi Library System
Classification: Cataloging Support

Company: Slater Hall Information Products
Address: 1522 K St., Suite 1112, NW
City & Phone: Washington, DC 20005 (202)682-1350
Title: Business Indicators
Price: $2,200/yr
Contents: GNP accounts from 1929-Present
Economic Series Articles from Blue Pages
Survey of Current Business 1982 Reports
Classification: Database

Company: Slater Hall Information Products
Address: 1522 K St., Suite 1112, NW
City & Phone: Washington, DC 20005 (202)682-1350
Title: Business Statistics
Price: $1,200
Contents: GNP accounts: 1929-85
Selections from Survey of Current Business
Classification: Database

Company: Slater Hall Information Products
Address: 1522 K St., Suite 1112, NW
City & Phone: Washington, DC 20005 (202)682-1350
Title: Census of Agriculture
Price: $1,200
Contents: 1982 Census of Agriculture
Classification: Reference Source

Company: Slater Hall Information Products
Address: 1522 K St., Suite 1112, NW
City & Phone: Washington, DC 20005 (202)682-1350
Title: County Statistics
Price: $1,200
Contents: Compendium of Information for US Counties
Classification: Database

Company: Slater Hall Information Products
Address: 1522 K St., Suite 1112, NW
City & Phone: Washington, DC 20005 (202)682-1350
Title: County-Metro Area Statistics
Price: $1,200
Contents: Census Bureau's COSTAT file
Classification: Database

Company: Slater Hall Information Products
Address: 1522 K St., Suite 1112, NW
City & Phone: Washington, DC 20005 (202)682-1350
Title: Population
Price: $1,200
Contents: 1980 Census
File #STF3C Population Estimates
Classification: Database

Company: Sociological Abstracts Inc.
Address: P.O. Box 22206
City & Phone: San Diego, CA 92122 (619)565-6603
Title: Sociofile
Price: $1,950/yr.
Contents: Abstracts from Journals in Sociology
Classification: Database

Company: Standard & Poor's Compustat Services
Address: 7400 South Alton Court
City & Phone: Englewook, CO 90112 (303)740-4510
Title: Compustat PC Plus
Price: $12,000-$45,000/yr
Prices Vary
Contents: Traded Companies, Annual Reports
Classification: Database

Company: Tax Analysts
Address: 400 N. Washington St.
City & Phone: Falls Church, VA 22046 (703)532-1850
Title: Tax Library
Price: To Be Announced
Contents: Primary Source Material to Support a Tax Practice
Classification: Reference Source

Company: Tescor Inc.
Address: 461 Carlisle Drive
City & Phone: Herndon, VA 22070 (703)435-9501
Title: First National Item Bank &
Test Development System
Price: $300-$800/mo
Contents: Test Questions for Elementary
& Secondary Grade Levels
Classification: Tutorial

Company: Tetragon
Address: 5455 Pare St. Suite 1102-2
City & Phone: Montreal Quebec H4P 1R1 (800)363-2372
Title: Rainbow: The Connection Business Base
Price: $3,000(Can)/yr
Contents: Canadian Business Address Database
Classification: Database

Company: Tetragon
Address: 5455 Pare St. Suite 1102-2
City & Phone: Montreal Quebec H4P 1R1 (800)363-2372
Title: Rainbow: The Connection Home Base
Price: $3,000(Can)/yr
Contents: Canadian Residence Database
Classification: Database

Company: Tri-Star Publishing
Address: 475 Virginia Drive
City & Phone: Fort Washington, PA 19034 (215)641-6000
Title: Oxford English Dictionary
Price: $1,250
Dist. By Bowker
Contents: Oxford English Dictionary
Classification: Reference Source

Company: Tri-Star Publishing
Address: 475 Virginia Drive
City & Phone: Fort Washington, PA 19034 (215)641-6000
Title: Trademark Information Database
Price: Prototype only
Contents: Active US Trademarks With Graphics
Classification: Reference Source

Company: University Microfilm Inc.
Address: 300 N. Zeeb Road
City & Phone: Ann Arbor, MI 48106 (800)521-0600
Title: 1984 IEEE Journals
Price: Prototype only
Contents: Plus Inspec Database
Classification: Database

Company: University Microfilm Inc.
Address: 300 N. Zeeb Road
City & Phone: Ann Arbor, MI 48106 (800)521-0600
Title: Dissertation Abstracts on Disc
Price: $995/yr
Contents: Abstract of Doctoral Dissertations and Master's Theses
Classification: Database

Company: University Microfilms Int.
Address: 300 N. Zeeb Rd
City & Phone: Ann Arbor, MI 48106 (313)761-4700
Title: ABI/Inform Ondisc
Price: $4,950/yr
Contents: Business Online Database
Most Recent Five Years
Classification: Database

Company: University Microfilms Int.
Address: 300 N. Zeeb Rd
City & Phone: Ann Arbor, MI 48106 (313)761-4700
Title: Newspaper Abstracts Ondisc
Price: $4,640 for 7 newspapers
Price varies; call for more info
Contents: Citations & Abstracts From:New York Times
Wall Street Journal, Christian Science Monitor
Los Angeles Times, Chicago Tribune, Boston Globe
Atlanta Constitution
Classification: Database

Company: University of Colorado LASP
Address: Campus Box B10
City & Phone: Boulder, CO 80309 (303)492-6867
Title: Voyager II Images of Uranus
Price: Beta Testing
Contents: Images of Uranus
Classification: Reference Source

Company: US Bureau of Census
Address: Data Users Service Division
City & Phone: Washington, DC 20233 (202)763-4100
Title: Census Test Disc #1
Price: Demonstration Only
Contents: Demographic Data By Zip Code
Classification: Reference Source

Company: US Geological Survey
Address: 804 National Center
City & Phone: Reston, VA 22092 (703)648-4000
Title: CD-ROM Prototype Disc
Price: Prototype Only
Contents: Geological Information
Classification: Reference Source

Company: US West Knowledge Engineering
Address: 4380 S. Syracuse, Suite 600
City & Phone: Denver, CO 80237 (303)694-4200
Title: Hydrodata
Price: Prices Vary
Contents: USGS Daily Values by State
Classification: Database

Company: UTLAS International
Address: 2150 Shattuck Ave.
City & Phone: Berkeley, CA 94704 (415)841-9442
Title: DisCon
Price: $800/mo + .20/record
Contents: MARC & REMARC Records
Classification: Database

Company: VLS Inc.
Address: 310 S. Reynolds Road
City & Phone: Toledo, OH 43423 (419)536-5820
Title: Optext
Price: $395/Disc
Contents: Code of Federal Regulations
Classification: Reference Source

Company: Western Library Network
Address: AJ-IIW
City & Phone: Olympia, WA 98504 (206)459-6518
Title: LaserCat
Price: $1,300/yr
Contents: MARC Records & Holdings of
250 WLN Libraries
Classification: Public Access Catalog

Index to Vendor List by Title

The following is an index to the previous vendor list arranged by the title of the CD-ROM product. After locating the title you are interested in, refer to the complete entry in the preceding list by company name.

Title: 1984 IEEE Journals
See: University Microfilm Inc.

Title: A-V Online
See: Access Innovation

Title: ABI/Inform Ondisc
See: University Microfilms Int.

Title: Abstracts File
See: Dun's Marketing Service

Title: Agricola
See: OCLC, Inc

Title: Agricola
See: SilverPlatter Information Services, Inc.

Title: Any-Book
See: Library Corporation

Title: Applied Science & Technology Index
See: H.W. Wilson Co.

Title: Attorney General Documents
See: Quantum Access Inc.

Title: Bibliofile
See: Library Corporation

Title: BiblioMed
See: Digital Diagnostics Inc.

Title: Biography Index
See: H.W. Wilson Co.

Title: BioLibe Series
See: MicroTrends Inc.

Title: Black fiction up to 1920
See: Cornell University

Title: Blaise Files
See: British Library

Title: BPN, Jr.
See: Library Systems & Services, Inc

Title: BRS Colleague Disc
See: BRS Information Technologies

Title: Building Sciences Information System
See: National Institute of Building Sciences

Title: Business Indicators
See: Slater Hall Information Products

Title: Business Periodicals Index
See: H.W. Wilson Co.

Title: Business Statistics
See: Slater Hall Information Products

Title: Ca-CD
See: Elsevier Science Publications

Title: CAB on CD-ROM
See: CAB International

Title: Cat CD450
See: OCLC, Inc

Title: Cataloger's Tool Kit
See: EBSCO Electronic Information Division

Title: Ccinfodisc
See: CCOHS

Title: CD-ROM Embase
See: Elsevier Science Publications

Title: CD-ROM Prototype Disc
See: US Geological Survey

Title: CD-ROM Sourcedisc
See: DDRI

Title: CD/Banking
See: Datext

Title: CD/Banking Savings & Loans
See: Datext

Title: CD/Biotech
See: PC-SIG Inc.

Title: CD/Corporate
See: Datext

Title: CD/CorpTech
See: Datext

Title: CD/International
See: Datext

Title: CD/Private+
See: Datext

Title: CDMARC Subjects
See: Online Computer Systems

Title: Census of Agriculture
See: Slater Hall Information Products

Title: Census Test Disc #1
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Title: CIRR
See: JA Micropublishing Inc

Title: COMPACT Cambridge/ASFA
See: Cambridge Scientific Abstracts

Title: COMPACT Cambridge/Life Sciences
See: Cambridge Scientific Abstracts

Title: COMPACT Cambridge/MEDLINE
See: Cambridge Scientific Abstracts

Title: Compact Disclosure
See: Disclosure

Title: Comprehensive MEDLINE/EBSCO
See: EBSCO Electronic Information Division

Title: Compu-Info
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Title: Computerized Clinical Information Systems (CCIS)
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Title: Conquest
See: Donnelley Marketing Service

Title: Core MEDLINE/EBSCO
See: EBSCO Electronic Information Division

Title: Corporate and Industry Research Reports
See: JA Micropublishing, INC

Title: County Statistics
See: Slater Hall Information Products

Title: County-Metro Area Statistics
See: Slater Hall Information Products

Title: Cumulative Book Index
See: H.W. Wilson Co.

Title: Daily Oklahoman
See: Data Times

Title: DataTimes
See: DATATEK

Title: Decus Fall 1986 CD-ROM Disc #1
See: Digital Decus Group

Title: Decus Spring 1987 CD-ROM DIsc #2
See: Digital Decus Group

Title: DeLorme's World Atlas
See: DeLorme Mapping Systems

Title: DIALOG OnDisc
See: DIALOG Information Services, Inc.

Title: DIALOG OnDisc ERIC
See: DIALOG Information Services, Inc.

Title: DIALOG OnDisc Medline
See: DIALOG Information Services, Inc.

Title: DIALOG OnDisc NTIS
See: DIALOG Information Services, Inc.

Title: DisCon
See: UTLAS International

Title: Dissertation Abstracts on Disc
See: University Microfilm Inc.

Title: Drugdex
See: Micromedex Inc.

Title: Education Index
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Title: Electronic Encyclopedia
See: Grolier Electronic Publishing Inc.

Title: Electronic Sweet's
See: McGraw-Hill Book Co.

Title: EMBASE Database on SilverPlatter
See: SilverPlatter Information Services, Inc.

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Title: FastPast
See: MicroTrends Inc.

Title: Federal Procurement Disc
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Title: GEOdisc
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Title: Hydrodata
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Title: Identidex
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Title: IMPACT
See: Auto-Graphics, Inc.

Title: Index to Legal Periodicals
See: H.W. Wilson Co.

Title: Informark Laser PC System
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Title: InfoTracII
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Title: International Encyclopedia of Information
See: Pergamon Press

Title: Kirk-Othmer Encyclopedia of
See: John Wiley & Sons, Inc.

Title: LaserCat
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Title: LaserGuide Patron Access Catalog
See: General Research Corporation

Title: LaserQuest
See: General Research Corporation

Title: LaserSearch
See: Ingram Book Company

Title: Lasertap
See: Sirsi Corp.

Title: LC-LAW
See: EBSCO Electronic Information Division

Title: LC-STM
See: EBSCO Electronic Information Division

Title: LePac: Government Documents
See: Brodart Automation

Title: LePac: Local Public Access Catalog
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Title: Library Literature
See: H.W. Wilson Co.

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See: MicroTrends Inc.

Title: LISA
See: Library Association Publishing

Title: Map Cabinet
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See: EBSCO Electronic Information Division

Title: Marcive/PAC
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Title: Mark's Encycolpedia of Polymer
See: John Wiley & Sons, Inc.

Title: Material Safety Data System
See: Quantum Access Inc.

Title: McGraw-Hill CD-ROM Science
See: McGraw-Hill Book Co.

Title: Medline
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Title: Menu
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Title: Merriam Webster Ninth
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Title: Microsoft Bookshelf
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Title: Million Dollar Directory
See: Dun's Marketing Service

Title: Modern Language Association Index
See: H.W. Wilson Co.

Title: Multilingual Dictionary of Science & Technology
See: Sansyusya Publishing Co. Ltd.

Title: National Directory
See: General Information Inc.

Title: National Meterological Grid Point Data Set
See: Department of Atmospheric Sciences

Title: Nature Plus
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Title: News Scan
See: Newsreel Access Systems Inc.

Title: NewsBank Electronic Index
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Title: Newspaper Abstracts Ondisc
See: University Microfilms Int.

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Title: Oncodisc
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Title: Optical Digital Image Storage System
See: National Archives & Records Administration

Title: Osh-ROM
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Title: Out of Print Plus
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See: Tri-Star Publishing

Title: PAF
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Title: Parts-Master
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Title: PC Laser Library
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See: KnowledgeSet Corporation

Title: PHINet Tax Resource
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Title: Population
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Title: Rainbow: The Connection Business Base
See: Tetragon

Title: Rainbow: The Connection Home Base
See: Tetragon

Title: Reader's Guide to Periodical Literature
See: H.W. Wilson Co.

Title: Real Estate Data: Washington,DC Area
See: Real Estate Data Inc.

Title: Reference Tool Kit
See: EBSCO Electronic Information Division

Title: Registry of Mass Spectral Data
See: John Wiley & Sons, Inc.

Title: Resors
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Title: Reviews Plus
See: Bowker Electronic Publishing

Title: Science Citation Index on CD-ROM
See: Institute for Scientific Information

Title: Science Helper(K-8)
See: PC-SIG Inc.

Title: Search CD450 Agriculture
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Title: Search CD450 Science & Technology
See: OCLC, Inc

Title: Search CD450 System
See: OCLC, Inc

Title: Serials Directory
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Title: Software Library DataPlate
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See: Bowker Electronic Publishing

Title: Tax Forms on Demand
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Title: Tax Library
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Title: The Directory of Library & Information Professionals
See: Information Technology Publishing - ALA

Title: The Intelligent Catalog
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Title: The International Dictionary of
See: John Wiley & Sons, Inc.

Title: The Serials Directory
See: EBSCO Electronic Information Division

Title: The Universe of Sounds
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Title: Ulrich's Plus
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Title: Your Marketing Consultant:
See: Knowledge Access Inc.

Title: Zip + 4
See: Information Design Inc.

GLOSSARY

CDOP & EGCD are references to sources for original definition. Complete citation is listed at the end of the glossary.

Access Time: A term that can be used to describe several types of activities. (1) The amount of time it takes to get an instruction or a unit of data from computer memory to the processing unit of a computer. (2) The amount of time it takes to get a unit of data from a direct access storage device to computer memory. EGCD (3) The time required to find, retrieve, and display a piece of recorded information. Access time usually refers to the longest time a storage device requires to get to a piece of information. CDOP

Address: (1) A coded representation of the destination of data or of their originating terminals. Multiple terminals on one communication line, for example, must have unique addresses. Messages carry an address before their text to indicate the destination of the message. (2) Either a specific location in computer memory, a specific location on a direct access storage device, or a relative location. EGCD

ADPCM (Adaptive Differential Pulse Code Modulation): A digital sampling method that adapts to changes in signal characteristics (such as amplitude or pitch period) by correlating successive data samples. ADCPM is used to reduce quantizing noise when compressing digitized signals. CDOP

Algorithm: A method of problem solving by which solutions are derived from a prescribed set of well-defined steps of a finite number. Any step-by-step procedure for arriving at a solution to a specific problem. EGCD

Aliasing: Distortion of digital information that occurs when the sampling rate is less than twice the maximum frequency component in the sampled signal. In images, aliasing appears as jagged edges, called "jaggies", along diagonal or curved boundaries; in sound, aliasing produces false tones. CDOP

Amplifier: An electronic device for boosting, or strengthening, a video or audio signal.

Analog: In electronics, a signal that is continuously variable (often expressed as a wave), as opposed to a digital signal, which is discretely variable (often expressed as pulses). Analog data are often graphically represented as a sine curve. Analog phenomena in nature include waves, time, temperature, and voltage. These can be expressed digitally by periodically sampling the analog components. CDOP & EGCD

Analog-to-Digital Converter (A/D converter or ADC): A device that samples an analog signal at regular intervals and quantizes each sample (that is, represents each sample's value with a binary number of some predetermined length expressed in bits per word). This process, called Analog-to-Digital conversion, produces a digital signal that describes the original analog signal. Setting the sampling rate and the word length high enough to resolve all useful information in the signal is important. In practice, some information will always be lost. CDOP

Applications Software: Programs designed to perform a user-specific task. Examples of applications software include word processing and full-text search and retrieval packages.

Artificial Intelligence: Computer programs that perform functions, often by imitation, which are normally associated with human reasoning and learning. EGCD

ASCII (American Standard Code for Information Interchange): A code established by the American Standards Association, ASCII is a standard table of even-bit digital representations of upper and lowercase Roman letters, numbers and special control characters in teletype, computer and word-processor systems. ASCII is used for alphanumeric communication by all major software manufacturers except IBM, which uses EBCDIC, a similar code it devised. Since most computer systems use a full eight bit byte to send an ASCII character, many hardware and software companies have added their own nonstandard and mutually incompatible codes to the official ASCII 128-character set, extending it to 256 characters. CDOP

Aspect Ratio: The width-to-height ratio of a rectangular object or figure. In computer displays, this can refer to either the screen shape or the pixel shape. Video has a screen aspect ratio of 4:3 and film an image aspect ratio of 3:2. No common standard exists for pixel aspect ratio, though the trend is toward square (1:1) pixels. CDOP

Audio Frequencies: Frequencies that can be heard by the human ear, usually 30 to 20,000 cycles per second. EGCD

Authoring Language: A high-level, plain-English computer language, often based on a computer language such as BASIC or Pascal, that enables users without formal programming skills to write computer programs. The same program generally contains both content and logic. CDOP

Authoring System: A collection of authoring programs and equipment that enable nonprogrammers to write interactive programs often working in everyday language, and without the painstaking detail formal programming requires. Using an authoring system, a person can develop a program without knowing its inherent commands and logic. CDOP

Auxiliary Data Field: In CD-ROM Mode 1, a 288-byte-long data field in a physical sector used for additional EDC/ECC, error detection and correction. In Mode 2, a 280 byte-long data field available to the user. CDOP

Bandwidth: The number of cycles per second expressing the difference between the lower and upper limiting frequencies of a frequency band; also, the width of a band of frequencies. This term is used, less formally, to represent the maximum number of information units (bits, characters) capable of traversing a communications path per second. EGCD

BER (Bit Error Rate): Expressed as the number of bits encountered before one erroneous bit is found (for instance, in CD ROM the BER is one erroneous bit in 1012 bits) or as a frequency of erroneous bits (for instance, 10-12 bits). CDOP

BIT: A bit is a binary (zero and one) digit and the smallest piece of data recognizable to a computer. The term is a contraction for binary digit. Data bits are used in combination to form a character; framing bits are used for parity and transmission synchronization. EGCD

Bit Map: A screen display in which each pixel location corresponds to a unique main memory location accessible by the central processing unit. Also can refer to images intended for display on this type of display system. See also PIXEL. CDOP

Bits-Per-Second (BPS): A measure of the speed of transmission in information systems. EGCD

Bit-Stream: Refers to a binary signal without regard to groupings by character. EGCD

Bit String: A group of arbitrarily arranged binary bits. EGCD

Block Error Correction: During CD ROM premastering, a process in which an error correction code (ECC) consisting of a string of bits is appended to each block of data (2048 bytes) to ensure that all erroneous user data will be recovered. CDOP

Bootstrapping (to BOOT): Refers to a machine-level software routine, the first instructions of which are to bring either the rest of the routine or some other larger program into the CPU from an input device, such as a keyboard. Often used to facilitate system start-up. EGCD

Browser: An application program that lets the user meander through areas of information on a CD-ROM, viewing the contents. CDOP

Buffer: A temporary storage device that is used to compensate for a difference in data flow rates or in time of data flow events when transmitting data from one device to another. EGCD

Burst Error: Errors detected in consecutive data bits on CD-ROMs, often caused by scratches, fingerprints or other physical irritants to the disc. Burst errors cause most data loss in optical memory. Error correction codes are designed based on the anticipated frequency and duration of burst errors. CDOP

Burst Mode: A method of writing or reading data that does not permit an interrupt to occur. EGCD

Byte: A group of bits, processed or operating together. An electronic data processing term that is used to describe one position or one character of information. The most common byte is eight bits long. A byte has 256 different possible combinations of eight binary digits. EGCD

CAV (Constant Angular Velocity): A disk mechanism that spins a disk at a constant speed, resulting in the inner disk tracks' passing the reading mechanism more slowly than do the outer tracks. Sectors on a CAV disk radiate in uniform patterns from the disk's center, so they are smaller at the inner areas, with higher storage density. A floppy disk is a CAV disk. See also CLV. CDOP Disks with CAV format have a series of concentric rings equally divided into sectors where data resides.

CD-I (Compact Disk Interactive): A technical specification for a self-contained multimedia system that allows simultaneous, interactive presentation of video, audio, text and data. The standard, also known as the Green Book Standard, envisions dedicated players and discs delivering pictures, sound and text via domestic TV and audio equipment as well as computer monitors. Proposed jointly by Phillips and Sony, CD-I is expected to appear commercially in 1988. CDOP

CD-PROM (Compact Disk as Programmable Read-Only Memory): This type of CD can be written once by the user and therefore can be programmed. Not yet available commercially. EGCD

CD-ROM (Compact Disk Read-Only Memory): A 4.7 inch read-only optical memory disc based upon the Philips/Sony World Standard that stores up to 600 megabytes of computer data and audio. See also ROM. Also known as the Yellow Book Standard. EGCD

Channel: (1) In television, a single path or section of the electromagnetic spectrum which carries a television signal. (2) A path or circuit along which information flows. EGCD A channel for digital data carries an analog signal since digital data is encoded into voltage changes, which are analog signals. The size, or BANDWIDTH, of the channel determines how much information can flow through it. A CD-ROM drive has a channel bandwidth of 150KB per second. (3) Parallel data streams stored on CD-I, especially those the user can select. CDOP

Chapter: A particular sequence of consecutive frames.

Character String: Any group of characters acted upon in a computer system as though it were a single unit.

Check Bit: A single binary digit used to determine the parity status of a byte of data. Often called a parity bit. EGCD

CIRC: See Cross-Interleaved Reed-Solomon Code

Circuit: A means of two-way communication between two points. EGCD

Chrominance: The color information in a full color electronic image. Requires luminance, or light intensity, to make it visible. CDOP

CLUT (Color Look-Up Table): A selection of colors assigned a digital value and held in a table. The program decodes a color picture for display by matching the code stored on the disc at a constant linear density, but requires special tracking and sensing devices to slow down the disc as the head rotates. A CD-ROM drive's rotational rate ranges from 500 to 200 rpm. CDOP

CLV (Constant Linear Velocity): A disc drive (such as CD-ROM drive) that rotates the disc at varying speeds, moving data past the optical head at a constant speed. The drive must rotate the disc more slowly as the head moves from the inner tracks toward the outer perimeter. This design allows data to be stored on the disc at a constant linear density, but requires special tracking and sensing devices to slow down the disc as the head rotates. CDOP Each frame of the disc cannot be addressed separately; the disc has a longer playing time per side than a CAV disc. EGCD Data is stored along one continuous spiral track.

Coaxial Cable: A cable capable of passing a wide range of frequencies with very low signal loss. A coaxial cable consists of a hollow metallic shield with a single wire accurately placed along the center of the shield and isolated from the shield. The cable is used as a hardwire link between receiving equipment and originating equipment for the transmission of television signals. EGCD

Color Standard: The way in which a color video picture is composed and transmitted. Three distinct, incompatible color standards-PAL,NTSC and SECAM and some minor variations within the PAL and SECAM systems are in use. CDOP

Compact Disc: The trademark name for an injection-molded aluminized disc, 12 cm in diameter, which stores high-density digital data in microscopic pits that a laser beam can read. Conceived by Philips and Sony, it was originally designed to store high-fidelity music for which Compact Disc Digital Audio is now a standard format accepted worldwide. Because of its very large data storage capacity, the Compact Disc now is used as a text/data medium in electronic publishing (CD-ROM). CDOP

Composite Monitor: A CRT monitor that accepts composite video input. In composite video, the luminance (brightness), chrominance (color) and synchronization information are combined into a single signal. Broadcast television uses a composite video signal. CDOP

Compression: 1. In the context of digital images, the process of compacting data based on the presence of large white or black areas in printed pages, engineering drawings or other images. The CCITT digital facsimile standards contain one-and two-dimensional compression/decompression algorithms. 2. Text compression refers to a technique that saves storage space by elimating gaps, empty fields, redudndancy or unnecessary data. All compressed data must be expanded by a reverse operation called decompression. CDOP 3. The reduction or gain of a signal with respect to the reduction or gain at another level of the same signal. EGCD

C stant Linear Velocity: See CLV

Controller: Any hardware or software element or group of elements through which system data are converted during input and output to a peripheral device to affect communications between the system and peripheral. EGCD

Contouring: A visual effect that occurs in images digitized with insufficient pixel depth. Gives the image a blotchy, flat appearance. CDOP

Conversion: Procedure by which a program recording on one format is transferred to another format, e.g. paper to microform, microform to electronic information. EGCD

CPU (Central Processing Unit): The part of the computer that controls the interpretation and execution of processing instructions. EGCD

Cross-Interleaved Reed-Solomon Code (CIRC): The first level of error correction used in CD-ROM and the only error correction needed for CD-Digital Audio. Use of CIRC yields an error rate of one uncorrectable error per 10 to the 9 bytes. Further error dection and correction in CD-ROM systems improve this to one error per 10 to the 15 bytes. CDOP

CRT (Cathode Ray Tube): Display mechanism in a television set. The sealed glass tube is filled with low-pressure gas. An electron gun (or guns, in the case of color monitors) in its neck focuses a narrow beam of electrons that scans the screen, causing its phosphor coating to glow where hit, thus creating an image. CDOP

Cycle: A time interval in which a characteristic or repeated event occurs. In a graphics system, most processing is said to run in machine cycles. EGCD

DAC: See Digital to Analog converter

Data Preparation: The process of converting data on media other than CD-ROM into a form suitable for delivery on CD-ROM. Involves several steps, including initial conversion of data into machine-readable form, indexing and building the files and file directories. CDOP

Database: 1) A collection of digitally stored data records. 2) A collection of data elements within records within files that have relationships with other records within other files. EGCD

Database Management: This software program can be thought of as a computerized filing cabinet full of information which comes with a superior indexing system. DBM software allows the user to create a database and store and retrieve any type of information. This kind of software program allows speed of access and the ability to automatically produce reports. A Database Management System (DBMS) is a set of programs designed to organize, store and retrieve machine-readable information from a computer-maintained database or databank. EGCD

Data Bus: A piece of computer hardware that transmits coded data in either parallel or serial mode between processors or other hardware components in a computer system. EGCD

Data Compression: See Compression

Data File: Set of related data in which all records are organized the same way and which can be accessed under a single name. EGCD

DataRom: Used by Sony as an acronym for their 5.25 inch optical read-only memory disc. Also referred to as OROM (Optical Read-Only Memory) EGCD

Delivery System: In CD-ROM, the set of CD-ROM and computer equipment used to deliver the information. A delivery system can involve a CD-ROM drive only, a computer, or a monitor and a keypad or it can include several memory devices, a printer and a variety of peripherals. CDOP

Demodulation: Makes communication signals compatible with computer terminal signals. EGCD

Device Drivers: Device driver software tells the computer how to talk to the CD-ROM drove. These software programs are needed for any microcomputer to communicate with external devices, such as a CD-ROM drive. They are small programs which have to be written for each device that is connected to the microcomputer. EGCD

Differential PCM (DPCM): A data-compression technique for quantizing sound digitally in which the differences between each sample value and the next are recorded rather than the values themselves. Compare with ADPCM. CDOP

Digital: 1) A function which operates in discrete stops. 2) Digital computers manipulate numbers encoded into binary (on-off) forms, while analog computers sum continuously varying forms. 3) Digital communication is the transmission of information using discontinuous, discrete, electrical or electromagnetic signals which change in frequency, polarity or amplitude. Analog (the opposite of digital) intelligence may be encoded for transmission on digital communication systems. EGCD

Digital-to-analog converter: Mechanical or electronic devices used to convert discrete digital numbers to continuous analog signals. (Also referred to D-A Converter and DAC) EGCD

Digital Videodisk: A videodisk on which digital data has been encoded in FM format normally used to record the video signal on a videodisk. CDOP

Digitizing: Refers to the process of converting graphic representations into digital data that can be processed by a computer system. EGCD

Diode: 1) An electronic device that permits electrical current flow in one direction in order to inhibit current flow in the opposite direction. 2) A two-electrode electron tube that contains an anode and cathode. EGCD

Disc Geography: The layout of data on a disc. Disc geography refers to, among other things, the starting and stopping points of data segments, the interleaving factor of interleaved files, and the distribution of data that must be placed in close proximity for seamless branching and playback. CDOP

Disc Organization: The process of formatting the files on the disc and creating the exact disc image to be mastered for a CD-ROM. Occurs at the end of data-preparation process. CDOP

Disk Operating System (DOS): A microcomputer software program that controls the flow of data between the system's internal memory and external disks, e.g., VMS, MS-DOS, CP/M, and UNIX. Examples of a CD-ROM operating system include References Technology's STA/File, TMS' LaserDos, and Digital Equipment Corporation's Uni-File. Most CD-ROM operating systems work with the High Sierra Format. EGCD

Display Adapter: The display system component that processes the computer data into a video signal the system's display monitor can interpret. This circuitry may be built into the computer or may be supplied via a separate card. CDOP

Dithering: 1) A bit-mapped graphics technique that expands the number of gray levels or colors on a display at the expense of spatial resolution. Groups of pixels are treated as a composite pixel, the brightness of which is varied by altering the number of component pixels that are illuminated. 2) A technique used to prevent contouring in digital images with limited gray scales. Analogous to creating halftones in printing, in dithering, small regions of pixels are treated as a single larger pixel; the large pixel's gray scale is altered by turning on different numbers of pixels in the cell. CDOP

Driver Software: See Device Drivers

Draw (Direct Read After Write): Describes a recording machine that reads continuously while writing to verify the quality of the written data. This allows error-free recording in a single pass, because whenever a written sector of data contains errors it is immediately rewritten. CDOP

Drive: A machine for reading from and, when possible, writing to an electronic data storage medium (Such as disk, tape or card). The medium can be optical, magnetic, etc. CDOP

EBCDIC (Extended Binary Coded Decimal Interchange Code): An eight bit code used to represent 256 numbers, letters and characters in a computer system. Developed by IBM and used primarily by IBM equipment. Compare with ASCII. EGCD

ECC See Error Correction Code

ECC Layers: Several error correction schemes can be used in combination on a disc. After a data record is encoded using one scheme, you can then re-encode it using a second scheme, improving the bit-to-error ratio. Each ECC scheme is considered a different layer, with each residing on top to the previous one. CDOP

EDC: See Error Detection Code

Edge Enhancement: An image-processing technique for sharpening the edges of objects in am image, removing blur or bringing out abscured detail. CDOP

Eight-to-Fourteen Modulation (EFM): A process during CD-ROM mastering in which each "word" of eight data bits is turned into 14 channel bits for storage on disc. The opposite process occurs when data is read from a CD-ROM disc. DCOP

Emulation: Imitation of a computing function by a system not originally designed to perform that function. EGCD

Encryption: Encoding computer data so that reading it requires special hardware or software. CDOP

Environment-Resistant: General term indicating a device's or system's capability of operating in extremes of temperature, humidity, vibration, sand and dust, etc. EGCD

EPROM (Erasable Programmable Read-Only Memory): Read-only memory in which data can be erased by ultraviolet light or other means and data can be reprogrammed bit by bit with appropriate voltage pulses. See also PROM. EGCD

Error Correction: A technique that identifies and corrects errors that occur during the recording or transfer of information. Used extensively in computer storage media such as Compact Discs. CDOP

Error-Correction Code (ECC): ECC is a method of data recovery that allows the full recovery of a single physical block of user data, which is 2,048 bytes. It is used by the CD-ROM drive and during CD-ROM premastering. EGCD

Error-Detection Code (EDC): Used in conjunction with ECC, EDC allows the detection of errors for correction. EGCD

Error Rate: The ratio of the amount of erroneously transmitted information to the total amount sent. EGCD

Error Recovery: The process of correcting erroneous data or otherwise minimizing the damage errors cause. This may consist of correcting the errors using an ECC code, masking them by interpolation or some other means of partial reconstruction, or aborting the current operation. To implement any error recovery scheme, the error first must be detected. CDOP

ESDI: A device interface standard proposed by Maxtor (of San Jose, CA) to enable a computer to communicate and exchange data with a mass storage device, such as a small Winchester drive. The ESDI was developed to exceed the limitation of the ST506 interface, and achieve data rates about 10MB/sec. See also IPI and SCSI. CDOP

Facsimile (FAX): 1) An exact copy of a document. 2) The process or result by which fixed images are scanned, transmitted electronically and reproduced either locally or remotely. EGCD

Field: 1) In data structures, the smallest unit stored ina database. 2) In video, a scan of one-half the lines that comprise a single, complete frame on the video screen. Two interlaced fields make up on frame. NTSC systems use a 525-line frame, so each field contains 262.5 lines. In noninterlaced systems, the field and frame are the same. CDOP

Firmware: Prewritten programs stored in read-only memory (ROM) circuits. Used widely as a method of implementing commonly used software in word processing and small computer systems. EGCD

Flag: 1) Any hardware of software indicator used to identify a byte, file or component of a graphics system. EGCD 2) In data preparation, a sequence of characters inserted in the text to convey information about a document's structure and display. The representation of these characters in the actual database is compressed. CDOP

Focus Servo: The mechanism in an optical drive that keeps the reading and/or writing light spot focused on the disc surface. The mechanism can adjust to avert the effects of surface imperfections and the jarring of the drive mechanism caused by external shocks or vibrations. CDOP

Formatting: The process of blocking user data and adding information identifying each block. The formatting information includes the data address and synchronization information and may include error correction check sums and data, as well as data type specification. The formatting process also creates the directory for all files on the disc. CDOP

Frame: 1) In compact disc technology, synonymous with sector. 2) In image technology, refers to one screen image in a timed sequence of images. CDOP

Frame Buffer: Synonymous with display buffer. A block of memory, generally part of a display adapter, that holds an image in a timed sequence of images. CDOP

Frame Delta: An image storage technique that stores only information that varies from one image to the next. The technique is used to minimize the space required to store and display animated or video images. CDOP

Frame Grabber: Synonymous with video digitizer. A device that digitizes a video signal and then places the digitized signal in a frame buffer to be stored or processed. CDOP

Frequency Response: The measurement of an audio unit's ability to reproduce, at equal volume, each sound frequency. EGCD

GCR (Group Code Recording): Group code is a block-oriented algebraic error correction code that enables recovery from burst errors. Used, for example, in the 6250 bpi half-inch nine-track magnetic tape on which computer data commonly is premastered for CD-ROM. CDOP

Green Book: Another name for the CD-I Standard.

Hard Read Error: Physical bits of data that cannot be read by the user since they are usually misplaced or absent from the data bit stream. EGCD

Hardware: Electrical and mechanical equipment involved in the production, storage, distribution, or reception of electronic signals. EGCD

Hashing: 1) A special mathematical algorithm. EGCD 2) An indexing method in which the value being searched for is used to compute the location where the data is stored. An index created in this way is called a hash table. CDOP

Header Field: In CD-ROM, a four-byte area of a data sector that contains the absolute sector address (three bytes) and the mode byte. CDOP

Hertz: A measure of frequency or bandwidth; the same as cycles per second. The frequency of an electric or electromagnetic wave in cycles per second, named after Heinrich Hertz, who detected such waves in 1883. EGCD

High Resolution: The degree of resolution necessary for a monitor to display clearly readable 80-column text. Computers for professional use normally employ high-resolution monitors. CDOP

High Sierra Group: An ad hoc standards group set up to establish nominal data format and compatibility for CD-ROM. The group, including representatives from the hardware, software and publishing industries, is named after the Lake Tahoe hotel where it first met in the summer of 1985. CDOP

High Sierra Group Proposal: The informal name for the first draft of a standard format for placing files and directories on CD-ROM discs proposed by the High Sierra Group. Work on the proposal began in the 1985 at the High Sierra Hotel at Lake Tahoe (hence its title). CDOP

Huffman Encoding: A data-compression scheme that uses variable-length codes, choosing the shortest codes for the most frequent values. It is used for one-dimensional data compression in the CDITT Group III digital facsimile standard. CDOP

Indexing: The process of building data structures for an electronic database that contain the location of each word or other data item. Indexes permit the computer to rapidly locate data without searching through the full body of data. A data item is searchable only if it is indexed. CDOP

Injection Molding: Manufacturing process used in making CD-ROM's in which molten plastic is squirted into a mold. CDOP

Integrated Information System: An information system that combines two or more technologies, e.g., CD-ROM and microcomputer. EGCD

Intelligent Player: A Compact Disc player with extra computing facilities built in (such as a CD-I player), enabling the player and the user to interact. CDOP

Intelligent Terminal: 1) A microprocessor-controlled device that can function as a self-contained microcomputer 2) A terminal device that is able to do more than send and receive data. EGCD

Interactive Media: Information storage devices on which information is stored in such a way that, by means of an application program the user participates in its delivery. The medium also may store the application program. The opposite of interactive is linear. CDOP

Interface: 1) The place at which two systems (such as a microcomputer and CD-ROM) meet and interact with each other. 2) Generically, an interface is a common interconnection between two components or functions that do not normally interact. It can be a piece of hardware equipment, a common area of computer storage, or some common instructions shared by two or more programs. 3) In the realm of microcomputers, interface describes the circuit board that attaches a particular peripheral device to another microcomputer. (See also Controller) EGCD

Interleaving: A multiprogramming technique in which parts of one computer program are inserted into another program so that if there are processing delays in one program, parts of the other program can be processed. EGCD

IPI (Intelligent Peripheral Interface): An interface standard that enables communication between a CPU and a peripheral storage device. The IPI interface handles data rates up to 10MB/sec. and is gaining support among several large companies, including IBM. CDOP

Interpolation: The determination of a value that lies between two known values through a mathematical calculation. EGCD

I/O (Input/Output): 1) An acronym used to signify the transfer of data between computer storage and peripheral devices. 2) The equipment or processes which transmit data into or out of a computer's central processing unit (CPU). EGCD

Joystick: A remote-control device for a computer that resembles an automobile's gearstick. A joystick is often used in video and arcade games and sometimes in interactive video applications. CDOP

Jukebox: In CD-ROM applications, a Compact Disc player that can hold and access several Compact Discs.

ISO: International Standards Organization

Keywords: In databases, specific values stored in fields, which are indexed and can be retrieved individually. A person's last name, stored in a Name field, is an example of a keyword. CDOP

Kilobits: One thousand data bits. Often expressed as Kbits. EGCD

Land: The reflective area between two adjacent nonreflective pits on a CD-ROM disc. In CD-ROM coding, a binary one represents the transition from pit to land and from land to pit, and two or more zeros represent the distances between transitions. CDOP

LASER (Light Amplification by Stimulated Emission of Radar): A device which transmits an extremely narrow and coherent (separate waves in phase with one another rather than jumbled, as in normal light) beam of electromagnetic energy in the visible light spectrum. EGCD

Local Area Network: 1) A communications network designed to serve a limited geographic area. 2) According to the Yankee Group (Boston, MA), a LAN is "An interoffice, intrabuilding, intrafacility communications system that supports some type of communications processing and transparent information transfer between users and/or electronic devices. EGCD

Logical Format: Synonymous with File Format. Specifies the organization and locations of data files on a CD-ROM, defining such things as a file's size, the directory structure for all files on the disc, and the numbers of discs in the application. The High Sierra Group (HSG) Proposal is an attempt by industry leaders to standardize the logical format of CD-ROMs which have been left to the discretion of operating systems developers. CDOP

Luminance: The intensity, or brightness component, of an electronic image. By itself, luminance creates an image in gray, black and white. It can be combined with chrominance to create a color image. CDOP

Magnetics: A form of computer memory in which data are stored in a magnetic oxide that coats a plastic or metal disk. Data are recorded (written) and played back (read) by magnetic heads which traverse the rotating disk under computer program control. EGCD

Mass Storage: A device which can hold very large amounts of information cheaply with automated access on demand. EGCD

Master: An original recording in its final format and intended for mass replication. CDOP

Medium: In computing, a substance or object on which information is stored; usually refers either to the sensitive coating on a writable device or to the device itself (that is, the disk, tape, card and so forth). CDOP

Microprocessor: 1) An integral piece of hardware, a microchip, which performs the logic functions of a digital computer. 2) It is a piece of hardware that houses the computing parts of a computer on one circuit board or in one set of integrated circuits. The microprocessor does not contain the I/O interfaces and memory unit. EGCD

Millisecond: One thousandth of a second. Expressed numerically as 0.001; abbreviated as ms or msec. EGCD

Mode 1 and Mode 2: These terms, when referring to the Compact Disc specifications, relate to the two main block or frame formats in which data is stored on the disc. Mode 1 provides for a level of error detection and correction beyond the CIRC, which the CD Digital Audio standard uses. Model 2 makes each block's total data area available for user data. The CD-I standard also employs the Mode 2 format. CDOP

Mouse: A remote-control device that can be guided by hand around a smooth surface to direct a cursor on the computer screen. CDOP

Nanometer: Nm (an acronym) is one millionth of a millimeter. EGCD

NISO (National Information Standards Organization): Establishes standards for libraries, information sciences, and publishing. CDOP

Noise: Interference a signal picks up every time it passes through electronic circuity. If noise is too intense, it affects the information quality. "Static" on telephone lines or "snow" on a television screen is an example of noise. CDOP

OCR (Optical Character Recognition): A method for converting printed characters to machine-readable character codes through an optical sensing device and pattern-recognition software. CDOP

OEM (Original Equipment Manufacturer): Usually refers not to the manufacturer of a device, but to the system integrator that resells the device as part of the system. Sometimes used as a verb. CDOP The term is used to describe the process of obtaining pieces of equipment from various manufacturers and configuring them as a single entity and then marketing the configuration to a third party. EGCD

Off-The-Shelf: Professionally produced, pre-packaged programs, usually of a generic nature. The alternative to off-the-shelf is custom-produced materials, such as software programs and specially designed and produced databases. EGCD

OMDR (Optical Memory Disc Recorder): A DRAW device used to write analog or digital information to an optical disc. CDOP

Online Computer System: A system in which input data enters the computer directly from the point of origin and/or output data is transmitted directly to where it is used. The intermediate stages, such as writing magnetic tape, punching data into cards or paper tape, or offline printing are largely avoided. EGCD

Optical Character Recognition: See OCR

Optical Disc: A disc read and/or written by light, generally a laser. Such a disc may store video, audio or digital data. CDOP

Optical Head : The assembly in a CD-ROM drive containing the components that bounce laser light off the data surface of a CD-ROM disc and convert the resulting reflections into electrical signals that can be interpreted as data. The head includes a laser, lenses, prisms, a focusing mechanism and a photodector. CDOP

Optical Scanning Device: A device that can view text or graphic images, sense the light emitted, and thereby, the position of the images, and translate those findings into online graphic data comprehensible to a computer graphics system. EGCD

Optical Storage: Storage of information on optically sensitive materials. These optical media (such as the Compact Disc) have very high storage density. CDOP

Original Equipment Manufacturer: See OEM

OS-9: The real-time operating system on which the CD-I operating system is based. CDOP

Overhead: In computer jargon, the amount of storage or other resources required to accomplish some task. CDOP

Palette: In digital video, the total number of colors available for pictorial presentations. CDOP

Parallel Processing: Simultaneous execution of two or more process operations in a single computer system. EGCD

Parity: A method of error detection that uses a percentage of redundant data to verify the user's data. CDOP

Parity Bit: The final bit added to a series of bits and assigned the value required to make the sum of all bits in the sector odd or even. Often added to data to provide a very simple form of error detection and, sometimes, error correction. See also Check Bit. CDOP

Parity Check: A test to help determine data's validity. Specifically, this test determines whether the number of zeros and ones that the binary digits of a byte of data represent is odd or even. CDOP

PCM (Pulse Code Modulation): The representation of continuous signals using discrete pulses (for instance, the digital representation of an analog waveform). The signal on Digital Audio discs is encoded in PCM. CDOP

Peripheral Equipment: Supplementary equipment that puts data into or accepts data from the computer, such as disk drives and printers. EGCD

Photoconductive Cell: Device for detecting or measuring electromagnetic radiation by variation of the conductivity of a substance (called a photoconductor) upon absorption of the radiation by this substance. Also referred to as a photoresistive cell. EGCD

Photodiode: A semiconductor diode in which the reverse electrical current varies with illumination. Also referred to as a photoconductor diode. EGCD

Photoresist: See Photoconductive Cell

Pit: 1) A microscopic depression in the reflective surface of a CD-ROM disc. The pattern of pits on the disc represents the data that is stored. The unpitted area between pits is called a land. The laser beam used to read back the data is reflected from the lands, but scattered by the pits. A typical pit is about the size of a bacterium - 0.5 by 2.0 microns (millionths of a meter). 2) Broadly used to refer to any type of data-carrying mark in optical media. CDOP

Pitch: The distance between tracks or pits on a disc. CDOP

Pixel: A picture element in a video display; the minimum raster display element, represented as a point with a specified color or intensity. CDOP

Pixel Aspect Ratio: The width-to-height ratio of a pixel. Aspect ratio is a function of the number of scan lines along the vertical axis and the number of scanning spots along the horizontal axis, along with the screen's physical aspect ratio. CDOP

Pixel Depth: The number of bits stored for each pixel in a bit-mapped image. The greater the pixel depth (the more bits per pixel), the wider the range of intensity levels or colors a bit map can represent. The number of possible pixel values is 2 to the N, where N is the pixel depth. CDOP

Pixel Doubling: A method of changing the aspect ratio of a display by duplicating rows or columns of pixels. CDOP

Pixel Thinning: A technique for reducing the bandwidth or changing the aspect ratio of an image by systematically discarding pixels. CDOP

Port: A connection point on a CPU through which a computer workstation or another device can communicate with the CPU directly. EGCD

Premastering: 1) Includes the conversion of digital code, the addition of error-correction codes, and the intelligent preprocessing of the data records. 2) In this phase of CD-ROM production, machine-readable and bit-stream data must be converted to the CD format. Premastering requires both knowledgeable computer professionals and computer processing power. During this stage, 288 bytes (called the "system data") of EDC and ECC are added to each block of user data (2,048) to ensure the full recovery of user block data. EGCD

Presentation System: Part of a delivery system used to process and display information received from the storage system. CDOP

Programmable Read-Only Memory (PROM): A memory that is not programmed during manufacturing and requires a physical or electrical process to program it. EGCD

Quantization: 1) Part of the process by which analog signals are encoded into digital form. 2) Also refers to the number of bits required to store the value of each digital sample. CD-Audio uses 16-bit quantization for each stereo channel, resulting in a range of about 64,000 discrete sound level values (64KB) at each sampling point. See also Sampling Rate. CDOP

Query Language: In database management systems, an alternative to conventional programming languages which allows users to formulate ad hoc information retrieval requests without formal training in algorithmic thought. EGCD

Random Access Memory (RAM): Semiconductor memory circuits used for the storage of data and programs in word processing systems and related information-processing devices. The content of these circuits is volatile. Contrast with Read-Only Memory (ROM). EGCD

Raster: The area that a scanning beam of a CRT illuminates. Also, the array of scan lines that cover a display area and depict images, called a raster scan. CDOP

Raw Bit Error: Sent to the microcomputer as a data error, raw bit error rate refers to physical data errors on the CD-ROM disc without the use of the CD-ROM drive's decoding and correction system. EGCD

Read: 1) To acquire or copy data from one storage device or medium to another. 2) The opposite of Write. EGCD

Read-Only Memory (ROM): Semiconductor memory circuits that contain prewritten programs or data. The content of ROM circuits is permanent, while the content of random access memory (RAM) circuits is volatile. EGCD

Real Time: An operating mode under which receiving and processing the data and returning the results occurs so quickly that it guides physical processes in question or interacts instantaneously with a user. EGCD

Redundancy: In error correction schemes, storing the same data more than once or in more than one way so that the additional information can be used to reconstruct any data lost because of media imperfections or transmission errors. CDOP

Reed-Solomon: An Algebraic code used for error correction. The Reed-Solomon code is part of the CIRC error correction code used to correct errors in Compact Discs. CDOP

Replication: The process of making multiple copies of a CD-ROM. CDOP

Reseek: Occurs when a playback devices's read head must perform a series of redundant disc accesses to a file to read all of its data into a memory buffer. A reseek commonly occurs if the presentation device can't store and process incoming data fast enough. If the buffer fills up, reading stops, and the disc must make at least one full revolution before reading can continue. This time lag can interrupt presentation if the buffer is small, as the buffer may empty and the presentation device become starved for data before the seek is complete. CDOP

RGB (Red-Green-Blue): A computer color display output signal and image-encoding scheme comprised of separately controllable red, green and blue elements. RGB monitors typically offer higher resolution than do composite monitors. CDOP

RTOS (Real-Time Operating System): For effective interaction, an operating system must be able to function within the constraints of real time. The CD-I's OS-9 based operating system is an RTOS. CDOP

Run-Length Encoding (RLE): An encoding technique to compress the data storing a screen image. Normally used to compress high-contrast images such as black-and-white images, run-length encoding compression stores only the transitions from black to white or from white to black and the distance between transition. CDOP

SASI (Shugart Associate Standard Interface): Commonly pronounced "sassy". An interface protocol that enables storage devices to communicate with microcomputers. Developed by Shugart Associates, SASI has been adopted as an industry standard for small disk drives. See also SCSI.

Scan Lines: The parallel lines across the video screen along which the scanning spot travels from left to right when laying down the video information that makes up the picture on the TV screen or monitor. NTSC standard video systems produce 525 lines on a screen, and PAL standard video systems produce 625 scan lines. CDOP

SCSI (Small Computer Standard Interface): Pronounced "scuzzy". An eight bit parallel interface that connects peripherals to microcomputers. Any CD-ROM drive with a SCSI can theoretically connect to any microcomputer with a SCSI, although minor implementation incompatibilities sometimes prevent this. Because SCSI is a bus-oriented interface, as many as eight systems and peripherals can be connected on one. SCSI is derived from SASI, which was renamed SCSI when the US Government adopted it, with some alterations, as a standard. CDOP

Sector: The smallest addressable unit of a disc's track. EGCD Generally, a data block on storage media, usually with a predetermined length. In CD-ROM, a 2,352-byte data block. Every CD-ROM sector contains its own error detection and correction coding and has its own unique address on the disc. CDOP

Seek: To position the read head of a mass storage unit in the correct location to read a particular file or piece of information. On a CD-ROM drive, this generally requires also altering the rotational speed. Because seeking data on a CD-ROM is time-consuming when compared to seeking on magnetic-disk media, the number of seeks required to find the desired information is an important determinant of overall CD-ROM system performance. The High Sierra Group's proposed file format and directory structure provide for opening any file on a CD-ROM disc with only one or two seeks. CDOP

Seek Error: Data error that results when the drive's laser is unable to accurately locate user-requested data as a result of physical and/or mechanical problems, such as vibration, disc surface irregularities, and poor laser focusing. EGCD

Self-Checking Code: A method of encoding data that allows an invalid code to be detected but not corrected. EGCD

Serial: Refers to the arrangement of data or processing tasks in a series. Often refers to the transmission of data through a communications line. EGCD

Servo-Mechanism: Systems of control which read their own output (feedback) to determine the degree of further output as compared with input. Automated temperature control devices are servo-mechanisms as are the focus and tracking servos of optical disk drives. EGCD

Shugart Associates Standard Interface: See SASI

Signal: Visual or auditory information converted into electrical impulses. EGCD

Signal-to-Noise Ratio (SNR): The strength of a video and/or audio signal in relation to the interference, or "noise", it has picked up in passing between source and destination. The higher the SNR value, the better the quality of the signal. CDOP

Software: A set of programs, procedures, and documents concerned with the operation of a data processing system. EGCD

Software Read Error: Sometime errors occur due to reading problems which result from poor laser focusing and circuitry noise; these can be corrected by rereading the CD-ROM disc. EGCD

Sprites: Screen images, movable under program or manual control through an input device. Sprites may be characters, cursor shapes, or specific patterns. They normally are smaller than full-screen size, and in certain cases their size is restricted. CDOP

Stamper: The metal plate carrying the negative image of a glass CD-ROM master disc that is used to mold polycarbonate replicates. CDOP

String: A sequence of characters stored according to their numeric codes. EGCD

Subcodes: Display and disc control information stored along with audio data on a Compact Disc. The Compact Disc Digital Audio format specifies eight subcode bits for every 588 data bits and labels them P,Q,R,S,T,U,V,and W. CDOP

Substrate: A physical material on which a microcircuit is fabricated; used primarily for mechanical support and insulating processes, e.g., ceramic, glass and plastic substrates. EGCD

Synchronization Field: In CD-ROM, a 12-byte area of a sector that contains synchronization information. In hexadecimal notation, all bytes in this field are FF except the first and last bytes, which are 00. Also called the sync code. CDOP

System Software: Programs that enable a computer to function and control its own operation as opposed to application programs which accomplish user-specific tasks. The most common example of system software is the group of programs described as the computer's operating system. EGCD

Tracking Servo: The servo in an optical drive that keeps the reading and/or writing light spot centered on the information track regardless of imperfections in the medium and drive mechanism or of shocks and vibrations. CDOP

Turnkey System: An integrated configuration of preselected hardware and prewritten software designed to accomplish a particular information-processing task. The term is most often applied to dedicated computer systems that use minicomputers or microcomputers. EGCD

UM: A micron, or a millionth of a meter. EGCD

Utilities: Programs that provide special processing functions which aid graphic activities. These functions include saving, listing, copying, initializing, etc. EGCD

Value-added Networks: Alternative information transmission networks designed to facilitate the communication of information among terminals and computers. Most value-added networks offer long-distance communication rates that compare very favorably with those of the conventional telephone network. Examples include Telenet and Tymnet. EGCD

Vectorize: To convert a bit-mapped image to structured graphics. CDOP

Video: Pertaining to the bandwidth and spectrum position of the signal resulting from television scanning. EGCD

Video Digitizer: See Frame Grabber.

Videodisc: A generic term describing an optical disc that stores color video pictures and two-channel sound along a spiral track. Uses the same optical readout principle as Compact Disc, but the discs are larger and double-sided, and the rotational speed and data rate are higher. The program information is analog, although the control information is digital. CDOP

Voice-Grade Audio: Sound information of sufficient quality for reproducing the human voice; normally voice-grade audio has a bandwidth of 4 to 8 kHz. CDOP

Volume Table of Contents (VTOC): 1) In Compact Disc, subcode information in the lead-in area of the disc identifying the number of tracks and indexes, their timing and their duration. 2) In CD-ROM, an area of the disc that includes the disc name, copyright information, pointers to datablocks, sequence numbers in a multivolume set, version numbers and so forth. CDOP

WORM (Write-Once, Read-Many): An optical disc technology in which the user may write to the disc as well as read from it. CDOP

Write: To transcribe recorded data from one place to another, or from one medium to another. (Information from a computer is written to a disk, rather than written on a disk) CDOP

Write-Once Medium: A data-storage medium to which data can be written but not erased. CDOP

Yellow Book: Another name for the CD-ROM standard. CDOP

Winchester-type Disk: A hard surface disk used as a high capacity magnetic storage alternative to floppy disks. As opposed to a removable disk, the Winchester-type disk is "fixed". EGCD

Zoom: In video and photography, the facility to enlarge (zoom in on) or diminish (zoom out from) an area of image. CDOP

EGCD: Essential Guide To CD-ROM, Edited by Judith Paris Roth, Meckler Publishing, 1986.

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